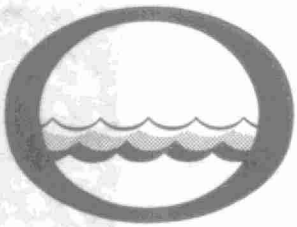


Water management in Ontario

Ontario
Water Resources
Commission

Water Resources
Bulletin 1-3
General series

Ont
Environment
Water res.

DATA FOR NORTHERN ONTARIO WATER RESOURCES STUDIES

1970

WATER RESOURCES
BULLETIN 1-3
General series

DATA FOR NORTHERN ONTARIO WATER RESOURCES STUDIES

1970

ONTARIO WATER RESOURCES COMMISSION

DIVISION OF WATER RESOURCES

TORONTO ONTARIO

1972

ERRATA FOR PREVIOUS BULLETINS

Water Resources Bulletin 1-1
Errata Sheet #2

Page	
16	Discharge of 243 cfs for Oct. 9, should be 423 cfs.

Water Resources Bulletin 1-2
Errata

Page	
18	Discharges for January are for 1970 and not 1969 as shown.
18	Discharge of 149 cfs for May 25, should be 1490 cfs.
25	The third and fourth digits of the station numbers should be changed from "03" to "04" e.g. 43-03-001 should be 43-04-001, etc.
41	Depth of 126 feet for well 43-05-001-1R should be 60 feet.
41	Depth of 60 feet for well 43-05-001-2 should be 126 feet.
44	Depth of 209 feet for well 43-05-005R should be 187 feet.
Map 2006-4	Severn Basin (47) - Streamflow station 009 should be relocated upstream of Garrett Lake; its location description is "one mile downstream of Missiwaweya Lake, Lat. 53°33'N. Long. 91°03'W."
	Severn Basin (47) - Streamflow station 4CA-3 should be 4CA-4.
	Severn Basin (47) - Streamflow station 4CA-4 should be 4CA-3 and should be relocated at Lat. 52°39'N. Long. 92°32'W.
	Attawapiskat Basin (44) - Streamflow station 4FB-3 should be 4FA-3.

TABLE OF CONTENTS

TABLES

STREAMFLOW (Recording Stations 1970)

Albany River Basin

Severn River Basin

STREAMFLOW (Non-Recording Stations 1970)

Albany River Basin

Severn River Basin

SNOWCOURSE DATA

OBSERVATION WELL LOGS

Albany River Basin

OBSERVATION WELL DATA

Albany River Basin

Attawapiskat River Basin

Severn River Basin

CHEMICAL ANALYSES OF WATER SAMPLES

PHYTOPLANKTON DATA

Albany River Basin

Attawapiskat River Basin

Severn River Basin

ILLUSTRATIONS

Water Resources Bulletin 1-3

Data for

Northern Ontario Water Resources Studies

1970

INTRODUCTION

In October, 1965, the Prime Minister of Canada and the Premier of Ontario announced that the Governments of Canada and Ontario had agreed to undertake a series of co-ordinated studies of Ontario's northern water resources and related economic development. Provision was made for the establishment of a Co-ordinating Committee representing the two governments to arrange for the exchange of all information gathered in the studies and to avoid duplication or overlapping of effort by the participating agencies. Most of the work is being undertaken in five large river basins draining to Hudson Bay and James Bay. From northwest to southeast these are the Severn, Winisk, Attawapiskat, Albany and Moose River basins.

The Co-ordinating Committee prepared a statement of objective for the studies to be carried out separately by agencies of the two governments, as follows:

"With respect to waters draining into James Bay and Hudson Bay in Ontario, to assess the quantity and quality of water resources for all purposes; to determine present and future requirements for such waters; and to assess alternative possibilities for the utilization of such waters locally or elsewhere through diversions."

The Government of Ontario delegated its part in the hydrologic and engineering aspects of the studies to the Ontario Water Resources Commission. The OWRC Division of Water Resources assigned the Hydrologic Data Branch and the Surveys and Projects Branch to pursue the studies. Ontario's part in the economic aspects of the studies was delegated to the Applied Economics Branch of the Ontario Department of Economics and Development and upon reorganization of some Ontario government departments, to the Economic Planning Branch of the Department of Treasury.

SCOPE OF BULLETIN

This bulletin is limited to the presentation of data gathered by the Ontario Water Resources Commission during 1970. Tables and maps are used to present the data and information on streamflows, ground-water levels, snow course data, water quality analyses and hydrogeology. A more complete report will be published at the end of the study and will deal in detail with the interpretation of the data obtained and the significance of the various hydrologic factors to the water resources of northern Ontario. Data collected by other agencies are not included in this publication.

METHOD OF SURVEY

The activities of the two branches of the Division of Water Resources working in the Northern Ontario Water Resources Studies are described below.

The Hydrologic Data Branch is engaged in the development of hydrometric networks and the gathering of hydrologic data throughout the Ontario portion of the Hudson Bay-James Bay drainage system. The field work of this branch is concentrated upon the measurement of streamflow, snowfall, ground-water levels and water quality. Field investigations are carried out to select sites for the installation of observation wells and streamflow gauging stations. Recorders are installed for continuous or short term (open water period) measurements. The Branch provides background information for work of the Surveys and Projects Branch and coordinates the establishment of co-operative streamflow gauging stations with the Federal Government.

The Surveys and Projects Branch normally works in one basin each year and evaluates the hydrologic regime and water quality of the northern river basins. Stream gauging sites are investigated for suitability as stations that will provide runoff data for representative drainage basins. The hydrogeologic conditions in the basins are investigated to determine ground-water availability and quality and to assess their effects on runoff regimes. Water quality tests are made continually. The Surveys and Projects Branch designates points at which data should continue to be collected to support its study of water availability.

The parties operated out of Nakina, Sioux Lookout and Big Trout Lake. Chartered aircraft operating out of these bases were used to fly to the remote areas which could not be reached otherwise.

For the year 1970, the Hydrologic Data Branch worked in the Severn, Winisk, Attawapiskat and Albany river basins.

The Surveys and Projects Branch worked in the Albany River basin around Nakina installing observation wells, in the upper sections of the Moose River basin carrying out a preliminary hydrogeological investigation and in the Severn, Winisk, Attawapiskat and Albany river basins on water quality studies.

FIELD PERSONNEL

The field activities were co-ordinated by Mr. R. Pikula. The OWRC personnel engaged in Northern Ontario Water Resources Studies field activities during the year 1970 are listed below:

Hydrologic Data Branch	Surveys and Projects Branch
M. Reid-Engineer-Party Chief	R. Pikula-Engineer-Party Chief
P. Ackermann - Technician	K. Wang - Geologist
J. Coffey - summer student	A. Roy - Scientist
W. Kivlichan-summer student	C. Boodram - Technician
	D. Andrijiw-summer student

EXPLANATION OF DATA PRESENTATION

All data in the tables that follow have been grouped according to the major drainage basins. The following comments explain some of the terms and descriptions used.

Locations

Latitude and longitude were determined from scaling the plotted locations on maps. The descriptions are further elaborated by references to stream features such as confluences, lake outlets, or nearest settlements.

Drainage Areas

The drainage area of a given streamflow station or measuring point is that area which is enclosed by a topographic divide such that all precipitation that falls on the area will drain past the measuring point or station. Areas were determined from the maps of the National Topographic System at a scale of 1: 250, 000.

Gauges

Where appropriate, types of gauges and brief descriptions of gathering devices are given.

Discharges

Discharges were computed by use of current meters and were measured either by wading or by suspension from a boat. In both cases, the stream was divided into approximately 20 sections so that the discharge in each section did not exceed ten per cent of the total discharge. The velocity was measured in each section and the discharge calculated. The summation of discharges for all sections was a computation of discharge at that section of the stream.

Velocity measurements were taken at 0.2 and 0.8 of the depth of each section and were averaged to give the velocity of the section. In extremely shallow conditions, velocity was measured at 0.6 of the depth from the water surface. Most of the boat measurements were done by use of a tag line which was used to position the boat at the selected section and to steady the boat in the current.

Snow Courses

Snow courses consisting of at least ten sample points spaced 100 feet apart were laid out in the bush so that typical average snow depths could be measured. The snow courses were sampled by a Mount Rose Sampler which involved the taking of a core of snow in a tube, recording the depth of snow, weighing the core and sampler, and calculating the water equivalent from the weight of the core.

Water Quality

Hach kits were employed to analyse samples of water in the field. Selected samples were sent to the Division of Laboratories of the Commission for testing and confirmation of field results. Conductivity meters were used to measure the electrical conductivity of samples in the field.

OTHER SOURCES OF DATA

It should be noted that the data contained in this report are only those collected by the Ontario Water Resources Commission. Additional data are available from the following agencies.

Streamflow - Inland Waters Branch, Environment Canada, Ottawa.

Snowcourse - Atmospheric Environment Service, Downsview, Ontario.

- Ontario Hydro Electric Commission, Toronto.

Rainfall - Atmospheric Environment Service, Downsview, Ontario.

- Ontario Department of Lands and Forests, District Headquarters.

Geology - Ontario Department of Mines and Northern Affairs, Toronto.

- Geological Survey of Canada, Ottawa.

Chemical Analysis of Water - Ontario Department of Lands and Forests, Toronto.

Bathymetric Contours of Lakes - Ontario Department of Lands and Forests, Toronto.

TABLE 1
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-024
LOCATION: Albany River at outlet of Miminiska Lake
51 33'N, 88 33'W
DRAINAGE AREA: 3,360 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						7,390	5,120	7,470	4,450	6,490		
2						7,430	5,240	7,730	4,370	6,520		
3						7,390	5,300	7,930	4,220	6,520		
4						7,390	5,300	8,120	4,180	6,460		
5						7,210	5,210	8,200	4,070	6,350		
6						7,130	5,120	8,160	3,970	6,250		
7						6,950	5,090	8,040	4,020	6,280		
8						6,700	5,150	7,970	3,840	6,280		
9						6,600	5,120	7,730	4,260	6,320		
10						6,630	5,030	7,470	3,020	6,390		
11						6,420	4,890	7,170	3,680	6,520		
12						6,380	4,650	6,810	4,370			
13						6,380	4,600	6,560	5,150			
14						6,380	4,510	6,320	5,940			
15						6,380	4,770	6,630	6,840			
16						6,350	5,060	6,740	7,170			
17						6,350	5,910	6,740	7,280			
18						6,320	6,920	6,740	7,320			
19						6,280	6,950	6,770	7,240			
20						6,110	9,000	6,700	7,170			
21						6,110	10100	6,420	7,060			
22						5,980	10400	6,210	7,210			
23					7,280	5,810	10100	6,110	7,170			
24					7,130	5,810	9,870	6,010	7,100			
25					6,990	5,550	9,450	5,880	7,100			
26					7,100	5,420	9,000	5,680	7,060			
27					6,990	5,330	8,590	5,580	7,000			
28					6,990	5,150	8,080	5,400	6,840			
29					7,100	5,150	7,510	5,540	6,700			
30					7,320	5,060	7,390	5,060	6,700			
31					7,360		7,360	4,630				

Estimated Discharge: Aug. 28-Sept. 14.

TABLE 2
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-017
LOCATION: Brightsand River at Moberley Lake Narrows
49°36'N, 90°34'W
DRAINAGE AREA: 450 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						1,310	785	294	156	558		
2						1,300	751	282	172	539		
3						1,280	724	272	204	527		
4						1,230	713	265		521		
5						1,180	687	253		506		
6						1,140	661	250		500		
7						1,090	635	244		488		
8						1,060	617	237		500		
9						1,040	599	226		527		
10						1,340	592			558		
11						1,560	585			585		
12						1,640	578					
13						1,650	588					
14						1,610	585					
15						1,550	533					
16						1,490	530					
17						1,470	506					
18						1,380	491					
19						1,350	473	184				
20						1,300	457	181				
21						1,240	444	181	764			
22						1,200	432	181	739			
23						1,130	409	175	720			
24						1,060	391	170	698			
25						1,030	366	168	679			
26						991	356	165	661			
27						947	339	165	638			
28						904	332	160	624			
29						861	321	159	592			
30					1,310	827	310	156	575			
31					1,310		308	157				

TABLE 3
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-008
LOCATION: Cat River at outlet of Wesleyan Lake
51°11'N, 91°36'W
DRAINAGE AREA: 2,080 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							2,290	2,560	2,120	2,460		
2						2,110	2,270	2,550	2,110	2,480		
3						2,200	2,260	2,530	2,170	2,480		
4						2,240	2,230	2,510	2,170	2,450		
5						2,290	2,200	2,500	2,150	2,430		
6						2,320	2,190	2,480	2,120	2,430		
7						2,340	2,200	2,460	2,260	2,430		
8						2,350	2,210	2,450	2,440	2,420		
9						2,380	2,190	2,420	2,520	2,480		
10						2,400	2,170	2,410	2,550	2,530		
11						2,400	2,150	2,390	2,560	2,530		
12						2,400	2,200	2,350	2,600	2,540		
13						2,400	2,230	2,330	2,600			
14						2,390	2,290	2,310	2,590			
15						2,390	2,460	2,290	2,580			
16						2,400	2,550	2,290	2,560			
17						2,430	2,610	2,240	2,550			
18						2,460	2,630	2,210	2,530			
19						2,450	2,670	2,220	2,520			
20						2,440	2,680	2,200	2,500			
21						2,440	2,690	2,160	2,500			
22						2,420	2,680	2,220	2,510			
23						2,420	2,670	2,220	2,500			
24						2,430	2,630	2,190	2,490			
25						2,370	2,610	2,180	2,490			
26						2,350	2,600	2,150	2,500			
27						2,340	2,590	2,200	2,500			
28						2,320	2,580	2,200	2,480			
29						2,310	2,560	2,180	2,480			
30						2,290	2,590	2,180	2,460			
31							2,580	2,150				

TABLE 4
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-009
LOCATION: Cheepay River near Albany River
51°27'N, 83°26'W
DRAINAGE AREA: 1,335 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							1,070					
2							1,060					
3							1,140					
4							1,210					
5							1,230					
6							1,210					
7							1,160					
8							1,090					
9							1,010					
10												
11												
12												
13												
14												
15												
16							867					
17												
18									1,280			
19												
20												
21												
22					3,570	1,540						
23						1,460						
24						1,430	N. F.					
25						1,350						
26						1,280						
27						1,180						
28						1,120						
29						1,080						
30						1,080						
31												

N. F. - No flow

TABLE 5
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-013
LOCATION: Kawashkagama River 2, 000 feet upstream from O'Sullivan Lake 50°26'N, 87°09'W
DRAINAGE AREA: 765 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1		309				1,770	1,170	724	422	805		
2						1,790	1,170	702	411	824		
3						1,790	1,150	669	405	847		
4						1,790	1,130	633	408	856		
5						1,740	1,110	612	405	842		
6						1,690	1,070	598	397	842		
7						1,630	1,050	576	389			
8						1,550	1,030	566	392			
9						1,500	1,000	552	413			
10						1,510	967	538	411			
11			260			1,550	938	525	460			
12						1,570	899	515	499			
13						1,580	875	512	542			
14						1,580	865	508	608			
15			254		1,390	1,560	952	505	652			
16					1,390	1,510	977	508	698			
17			334		1,380	1,520	1,110	505	750			
18					1,340	1,550	1,160	505	773			
19	297				1,330	1,550	1,180	505	791			
20					1,310	1,510	1,190	505	833			
21					1,320	1,490	1,170	499	856			
22					1,340	1,440	1,130	487	870			
23					1,360	1,380	1,080	478	865			
24					1,360	1,410	1,020	472	851			
25					1,380	1,340	982	466	837			
26					1,480	1,300	942	460	828			
27					1,520	1,260	899	451	824			
28					1,550	1,230	856	445	810			
29					1,580	1,200	810	442	805			
30					1,670	1,150	773	425	810			
31					1,720		750	428				

TABLE 6
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-018
LOCATION: Muswabik River at outlet of Lorenz Lake*
51°32'N, 85°05'W
DRAINAGE AREA: 730 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							361	811	530	2,040		
2							354	753	554	1,890		
3								753	587	1,870		
4								716	554	1,940		
5								628	483	1,880		
6								546	483	1,790		
7								483	546	1,750		
8								462	554	1,740		
9								448	620	1,800		
10								419	820	1,810		
11								393	698			
12								361	880			
13								361	1,020			
14								348	1,200			
15								342	1,410			
16							801	354	1,370			
17							1,110	367	1,440			
18							1,300		1,520			
19							1,520		1,550			
20					2,370		1,630		1,580			
21					2,380		1,710	419	1,580			
22					2,350		1,690	419	1,640			
23					2,310	469	1,610	440	1,740			
24					2,120	672	1,500	462	1,810			
25					2,080	491	1,410	523	1,870			
26					2,240	476	1,330	476	1,940			
27					2,220	426	1,240	546	1,980			
28					1,990	406	1,140	587	2,050			
29						412	1,000	562	2,030			
30						393	919	637	1,940			
31							860	546				

*Formerly described as Muswabik Lake.

TABLE 7
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-020
LOCATION: Opichuan River at Kellow Lake Narrows
51°10'N, 87°46'W
DRAINAGE AREA: 440 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						797	715	641	360	737		
2						797	790	605	348	737		
3						782	790	562	348	752		
4						774	774	513	342	737		
5						746	752	479	336	722		
6						718	730	446	318	707		
7						689	715	446	324	700		
8						660	700	459	342	715		
9						630	670	452	348	797		
10			203			602	641	427	513	888		
11						572	605	402	656			
12						542	576	395	722			
13						515	548	383	782			
14						486	562	377	820			
15						472	663	427	850			
16						459	722	472	865			
17						520	842	486	888			
18						576	957	479	896			
19					752	605	997	479	896			
20					737	612	1,010	466	888			
21	208				730	612	1,010	452	919			
22					715	612	997	452	957			
23					693	626	981	439	950			
24					663	641	950	433	919			
25					670	641	896	427	888			
26					737	641	850	420	858			
27					760	634	804	420	820			
28					767	634	760	414	774			
29					782	648	715	395	752			
30					790	663	685	389	752			
31					804		678	377				

Estimated Discharge: June 5-13, Aug. 23-24.

TABLE 8
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-021
LOCATION: Pashkokogan River 1.5 miles downstream from Pashkokogan Lake 51°02'N, 90°12'W
DRAINAGE AREA: 875 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						1,240	1,210	1,220	1,240	1,590		
2						1,260	1,200	1,210	1,240	1,600		
3						1,280	1,140	1,190	1,250	1,590		
4						1,300	1,140	1,200	1,250	1,560		
5						1,320	1,140	1,200	1,250	1,540		
6						1,330	1,100	1,200	1,260	1,540		
7						1,330	1,090	1,230	1,270	1,560		
8						1,370	1,090	1,210	1,360	1,510		
9						1,370	1,100	1,200	1,390	1,510		
10						1,340	1,070	1,200	1,420	1,620		
11						1,330	1,050	1,190	1,460	1,580		
12						1,350	1,030	1,180	1,450	1,540		
13						1,370	1,050	1,190	1,480			
14						1,370	1,030	1,170	1,510			
15						1,360	1,050	1,180	1,510			
16						1,350	1,110	1,170	1,540			
17							1,110	1,160	1,540			
18						1,350	1,100	1,180	1,550			
19							1,090	1,180	1,540			
20						1,360	1,090	1,180	1,550			
21							1,090	1,150	1,540			
22							1,090	1,170	1,560			
23							1,090	1,200	1,580			
24							1,100	1,210	1,580			
25						1,290	1,100	1,210	1,590			
26						1,270	1,070	1,200	1,620			
27						1,250	1,070	1,220	1,590			
28						1,230	1,060	1,250	1,590			
29						1,220		1,240	1,600			
30					1,190	1,190		1.230	1,570			
31					1,200			1,250				

TABLE 9
STREAMFLOW
SEVERN RIVER BASIN
1970

STATION NUMBER: 47-01-003
LOCATION: Flanagan River at Northwind Lake Dam
52°49'N, 93°27'W
DRAINAGE AREA: 1,063 sq. miles
GAUGE: Pressure bulb type

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							1,130	935	561	530	770	
2						988	1,200	896	561	514	791	
3						979	1,250	892	556	517	807	
4						998	1,330	883	551	539	836	
5						1,000	1,500	870	547	549	862	
6						1,000	1,670	866	542	542	848	
7						998	1,810	848	537	524	844	
8						1,010	1,860	832	532	524	870	
9						1,010	1,870	816	528	533	870	
10						998	1,860	801	523	542	848	
11						998	1,810	786	518	549	844	
12						979	1,720	770	513	552	840	
13						965	1,640	754	508	536	840	
14						965	1,570	739	504	533	875	
15						974	1,500	723	499	542	892	
16						979	1,450	708	494	552	892	
17						970	1,410	693	489	555	909	
18						965	1,370	677	485	558	926	
19						974	1,350	662	480	572	931	
20						961	1,310	647	475	578	939	
21						965	1,280	631	490	589	926	
22						970	1,250	610	484	600	922	
23						956	1,220	610	496	606	922	
24						965	1,180	603	499	614	965	
25						1,020	1,150	592	493	638	984	
26						1,010	1,120	589	487	631	988	
27						1,010	1,080	572	496	642		
28						1,010	1,050	568	508	675		
29						998	1,020	572	511	706		
30						1,010	984	568	527	722		
31							965	565		750		

Estimated Discharge: July 19-29, Aug. 9-20, Sept. 3-19.

TABLE 10
STREAMFLOW
SEVERN RIVER BASIN
1970

STATION NUMBER: 47-01-006
LOCATION: Morrison River at Sachigo Lake
53°48'N, 91°50'W
DRAINAGE AREA: 259 sq. miles
GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								423	153			
2								400	151			
3								376	151			
4								267	162			
5								350	171			
6								335	182			
7								327	189			
8								314	186			
9								306	186			
10								291	186			
11								281	189			
12								264	189			
13								255	191			
14								248	193			
15								237	198			
16								223	198			
17								223	195			
18								221	193			
19							763	207	193			
20								195	193			
21								191	207			
22						355		184	234			
23						358		177				
24								171				
25								169				
26								164				
27								167				
28								156				
29							495	160				
30							463	158				
31							443	153				

TABLE 11
STREAMFLOW
SEVERN RIVER BASIN
1970

STATION NUMBER: 47-01-009
LOCATION: Schade River one mile downstream from Misiwaweya Lake
53°33'N, 91°09'W
DRAINAGE AREA: 1,170 sq. miles
GAUGE: Pressure bulb type

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						2,800	2,990	1,990	825	1,660	1,850	
2						2,800	3,260	1,860	825	1,680	1,810	
3						2,830	3,440	1,750	867	1,600	1,850	
4						2,750	3,720	1,700	1,060	1,620	1,850	
5			217			2,810	3,920	1,660	1,150	1,720	1,850	
6						2,790	4,150	1,600	1,270	1,760	1,850	
7						2,690	4,280	1,560	1,300	1,810	1,900	
8						2,640	4,360	1,510	1,360	1,760	1,940	
9						2,540	4,400	1,470	1,350	1,760	1,990	
10						2,450	4,360	1,380	1,350	1,900	1,990	
11						2,390	4,300	1,350	1,350	1,910	1,940	
12						2,320	4,250	1,290	1,350	1,900	1,850	
13						2,220	4,260	1,230	1,360	1,940	1,810	
14						2,080	4,010	1,190	1,370	1,920	1,760	
15						2,020	3,900	1,160	1,370	1,900	1,850	
16						1,910	3,690	1,120	1,350	1,940	1,780	
17						1,840	3,480	1,110	1,320	1,940		
18						1,710	3,380	1,100	1,280	1,940		
19						1,710	3,280	1,060	1,260	1,960		
20						1,700	3,170	964	1,250	1,940		
21						1,660	3,110	945	1,230	1,940		
22						1,610	3,030	939	1,310	1,940		
23						1,650	2,880	921	1,350	1,940		
24						1,710	2,820	909	1,360	1,920		
25						1,820	2,640	891	1,390	1,920		
26						1,960	2,550	867	1,400	1,940		
27						2,120	2,440	861	1,420	1,920		
28						2,260	2,370	837	1,480	1,940		
29						2,420	2,220	831	1,560	1,920		
30	228					2,470	2,210	831	1,600	1,900		
31							2,080	825		1,850		

TABLE 12
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION				DRAINAGE AREA	DISCHARGE	
Name and Description	Number	Lat. N.	Long. W.	sq. miles	Date	cfs
Balkam Creek at Walker's Road (Nakina)	43-01-023	50 11'	86 43'	22	June 25/70	34.3
					July 2/70	28.6
					July 4/70	27.9
					July 6/70	26.6
					July 7/70	24.9
					July 9/70	22.4
					July 11/70	19.4
					July 13/70	19.3
					Aug. 1/70	15.1
					Aug. 19/70	10.5
Kenogami River below Little Current River	43-01-015	50 58'	84 36'	17,620	May 27/70	41,000
					June23/70	24,300
					June30/70	18,800
					July 25/70	15,000
					Aug.23/70	3,940
					Sept.16/70	30,600

NOTE: All discharges were obtained by the current meter method unless designated by the following subscripts.

r - automatic stage recorder
s - staff gauge

TABLE 13
STREAMFLOW
SEVERN RIVER BASIN
1970

STATION				DRAINAGE AREA	DISCHARGE	
Name and Description	Number	Lat. N.	Long. W.	sq. miles	Date	cfs
Sachigo River 9 miles downstream from Sachigo Lake	47-01-007	54 05'	92 08'	1,610	May 31/70	2,000
					June20/70	2,230
Sachigo River 9 miles upstream from Sachigo Lake	47-01-008	53 42'	92 17'	779	May 31/70	1,630
					June22/70	870
					July 18/70	1,570
					July 29/70	766
					Aug.21/70	281

NOTE: All discharges were obtained by the current meter method unless designated by the following subscripts.

r - automatic stage recorder
s - staff gauge

TABLE 14
SNOW COURSE DATA
1969/1970 Season

EQUIPMENT: Mount Rose Snow Sampler, 10 point snow course

Basin	Albany		Albany		Attawapiskat		Attawapiskat		Severn		Winisk	
Station Number	43-04-001		43-04-002		44-04-001		44-04-002		47-04-001		46-04-001	
Station Location	Nakina		Ogoki		Attawapiskat		Pickle Lake		Sandy Lake		Winisk	
Elevation	1000		550		20		1450		1000		20	
Latitude N.	50°12'		51°08'		52°56'		51°27'		53°03'		55°16'	
Longitude W.	86°42'		85°58'		82°25'		90°12'		93°15'		85°12'	
Date	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)
November 3/69	13.2	0.4										
November 15/69	11.6	1.1			nil	nil					16.9	3.2
November 29/69									11.4	0.2		
December 1/69	13.7	2.3			10.1	1.9					20.7	3.8
December 13/69									13.1	0.2		
December 15/69	15.5	2.9	16.2	3.1	14.3	2.7	19.3	1.9			20.1	4.1
December 18/69									17.1	2.2		
December 28/69					16.9	2.5					23.4	4.8
January 1/70							18.7	2.2				
January 2/70	17.1	3.9							17.6	2.5		
January 3/70											25.8	6.3
January 11/70					20.6	3.1	22.6	2.5				
January 15/70	22.2	4.7							18.3	2.8		
January 18/70			23.7	2.9								
January 24/70							24.0	3.5				
February 1/70	23.0	4.9	25.4	4.3	21.6	3.7						
February 2/70												
February 3/70												

TABLE 14 (cont'd)
SNOW COURSE DATA
1969/1970

EQUIPMENT: Mount Rose Snow Sampler, 10 point snow course

Basin	Albany		Albany		Attawapiskat		Attawapiskat		Severn		Winisk	
Station Number	43-04-001		43-04-002		44-04-001		44-04-002		47-04-001		46-04-001	
Station Location	Nakina		Ogoki		Attawapiskat		Pickle Lake		Sandy Lake		Winisk	
Elevation	1000		550		20		1450		1000		20	
Latitude N.	50°12'		51°08'		52°56'		51°27'		53°03'		55°16'	
Longitude W.	86°42'		85°58'		82°25'		90°12'		93°15'		85°12'	
Date	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)
February 8/70											26.7	6.5
February 15/70	23.6	4.9	24.9	5.1	22.8	4.1			18.2	3.0		
February 16/70							25.3	4.6				
February 22/70											29.5	7.5
March 1/70			27.4	4.9	23.8	4.4						
March 2/70	26.4	5.4					25.6	5.1	21.7	3.9		
March 8/70											31.1	8.0
March 15/70	26.8	5.6	33.8	6.2	25.3	6.1			22.9	3.9		
March 16/70							28.7	5.7				
March 22/70											31.4	9.7
April 1/70	23.6	4.7	31.7	5.5	22.5	5.5						
April 2/70							25.1	4.7				
April 6/70											32.3	8.5
April 14/70							25.1	6.4				
April 15/70	19.8	4.4			17.8	7.5						
April 20/70											30.6	8.2
April 29/70							6.4	2.8				
May 1/70	11.8	3.6			1.8	0.2						
May 15/70	nil	nil			nil	nil						

TABLE 15
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°10'	86°49'	Hwy. 643, 1.5 miles west of Hwy. 584, Nakina.	43-05-014-4	0-3	Fine brown sand and silt.
				3-10	Coarse grey sand and gravel.
				10-15	Very coarse grey sand.
				15-35	Medium to coarse grey sand.
				35-40	Coarse grey sand and gravel.
				40-55	Medium grey sand and gravel.
				55-60	Medium grey sand.
				60-75	Fine grey sand.
				75-77	Very fine grey sand and silt.
				77-90	Tight blue clay.
				90-91.5	Coarse grey sand and hard boulders.
				91.5-93.5	Very hard grey boulders.
		see above	43-05-014-1	27	see above
		see above	43-05-014-3	46	see above
		see above	43-05-014-2	93.5	see above

TABLE 16
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°10'	86°50'	Fleming Lake Road west of Hwy. 643.	43-05-015-3	0-0.2	Organic.
				0.2-2	Fine to medium brown sand with clay.
				2-24	Sand and gravel, stratified.
				24-52	Very fine to coarse grey sand with silt.
				52-70	Very fine grey sand with silt and streaks of clay.
				70-89	Sticky blue clay.
				89-91.5	Medium to coarse dirty grey sand.
				91.5-95	Medium loose grey sand.
		see above	43-05-015-1	25	see above
		see above	43-05-015-2	45	see above

TABLE 17
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°10'	86°51'	Hwy. 643, 2.25 miles west of Hwy. 584.	43-05-016-3	0-1	Fine brown sand.
				1-35	Fine to medium grey sand with gravel and silt.
				35-40	Very fine to medium grey sand.
				40-44	Very fine grey sand with silt.
				44-55	Blue silt with clay.
				55-66.3	Tight blue clay.
				66.3-68.3	Coarse grey sand with hard boulders.
		see above	43-05-016-1	27	see above
		see above	43-05-016-2	45	see above

TABLE 18
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°12'	86°42'	Cordingley Road at Balkam Creek Nakina.	43-05-017-2	0-5	Very fine grey sand with silt and clay.
				5-25	Fine grey sand and silt.
				25-28	Grey silt with fine to coarse gravel.
				28-29	Grey boulders with coarse gravel.
				29-30	Grey boulders.
		see above	43-05-017-1	15	see above

TABLE 19
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°12'	86°40'	Cordingley Road 1.75 miles north of Nakina.	43-05-018	0-5	Brown clay with fine sand.
				5-10	Fine grey sand.
				10-15	Fine grey sand with silt.
				15-25	Fine grey sand.
				25-30	Fine grey sand with silt.
				30-40	Grey silt.
				40-45	Grey silt with fine sand.
				45-50	Coarse grey sand and boulders.

TABLE 20
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°13'	86°42'	Gravel pit west of Cordingley Road.	43-05-019	0-2	Medium to coarse brown sand.
				2-3	Hard grey boulders.
				3-8	Coarse grey sand with gravel and boulders.
				8-17	Coarse grey sand and gravel.
				17-52	Fine to coarse grey sand with gravel.
				52-65	Fine to coarse grey sand with gravel and boulders.
				65-72	Fine to coarse grey sand and gravel.
				72-75	Coarse grey sand with gravel and boulders.
				75-80	Medium to coarse grey sand with gravel.

TABLE 21
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°11'	86°42'	North of OWRC warehouse - Nakina.	43-05-020	0-3 3-4.5 4.5-6 6-7	Black fill with gravel. Grey silt with fine sand. Coarse grey sand and gravel. Coarse grey sand, bedrock.

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 22

Observation Well No.:	43-05-001-1R
Location:	Anaconda Road at Kowkash Road, 50°20'N.; 87°05'W.
Elevation:	998.92'(ground surface assuming elevation of bench mark is 1000 ft.)
Type:	Slotted pipe 2" I. D.
Aquifer or Geological Material:	Silt and clay
Depth:	60 feet
Recording Commenced:	June 20, 1969
Measuring Point:	Top of casing (2.92 feet above ground surface)

Average daily water level from ground surface in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.22	27.30				27.81		26.85	27.03	27.05	26.64	26.43
2	27.22	27.30				27.83		26.84	27.03	27.01	26.64	26.43
3	27.22					27.85		26.83	27.02	27.01	26.64	26.42
4	27.23					27.88		26.82	27.05	27.03	26.63	26.43
5	27.23					27.89		26.82	27.10	27.03	26.60	26.42
6	27.25					27.91		26.82	27.12	27.02	26.58	26.43
7	27.27					27.92		26.81	27.12	27.02	26.58	26.43
8	27.27					27.93		26.81	27.13	26.99	26.58	26.43
9	27.28					27.96		26.81	27.14	26.96	26.57	26.43
10	27.28					28.02		26.81	27.13	26.95	26.52	26.45
11	27.28					28.05		26.81	27.11	26.95	26.51	26.45
12	27.28					28.05		26.80	27.12	26.95	26.52	26.48
13	27.28					28.06		26.79	27.14	26.94	26.52	26.48
14	27.28					28.06		26.79	27.15	26.94	26.52	26.49
15	27.28					28.09	26.93	26.79	27.15	26.94	26.52	26.55
16	27.28					28.13	26.94	26.80	27.14	26.94	26.51	26.56
17	27.28					28.19	26.94	26.82	27.14	26.90	26.51	26.56
18	27.28					28.18	26.93	26.84	27.14	26.88	26.50	26.56
19	27.28					28.20	26.93	26.83	27.14	26.87	26.48	26.56
20	27.29					28.22	26.92	26.84	27.12	26.85	26.47	26.58
21	27.30					28.23	26.91	26.85	27.10	26.84	26.45	26.59
22	27.30					28.23	26.92	26.86	27.08	26.82	26.45	26.60
23	27.30					28.26	26.93	26.88	27.10	26.81	26.45	26.60
24	27.29					28.31	26.92	26.90	27.11	26.80	26.45	26.61
25	27.29				27.70	28.31	26.92	26.91	27.11	26.78	26.45	26.62
26	27.30				27.75	28.32	26.91	26.95	27.09	26.77	26.44	26.62
27	27.30				27.76	28.31	26.91	26.97	27.09	26.74	26.45	26.65
28	27.30				27.77	28.32	26.89	26.97	27.10	26.67	26.45	26.68
29	27.30				27.77		26.87	26.99	27.07	26.65	26.44	26.70
30	27.30				27.78		26.87	26.99	27.07	26.64	26.44	26.71
31	27.30				27.79		26.86	27.01		26.64		26.72

TABLE 23

Observation Well No.:	43-05-002-1
Location:	Anaconda Road near O'Sullivan Lake, 50°25'N.; 87°08'W.
Elevation:	998.36' (ground surface assuming elevation of bench mark is 1000 ft.)
Type:	Slotted pipe 2" I. D.
Aquifer or Geological Material:	Sand
Depth	41 feet
Recording Commenced:	June 20, 1969
Measuring Point:	Top of casing (2.83 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 19	8.25	June 3	8.21
Feb. 12	8.34	July 1	8.16
Mar. 11	8.49	July 3	8.19
Apr. 8	8.58	July 6	8.19
May 5	8.17	July 30	7.99
May 17	8.30	Nov. 10	7.74
May 24	8.30	Dec. 14	7.24

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 24

Observation Well No.:	43-05-003R
Location:	18 miles north of Calstock, 50°04'N.; 84°08'W.
Elevation:	No bench mark
Type:	Slotted pipe 2" I.D.
Aquifer or Geological Materials:	Sand and gravel
Depth:	120 feet
Recording Commenced:	June 19, 1969
Measuring Point:	Top of casing (3.00 feet above ground surface)

Average daily water level from ground surface in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1									80.02	80.09	80.20	80.26
2									80.03	80.09	80.20	80.27
3									80.04	80.09	80.19	80.28
4									80.04	80.10	80.19	80.28
5									80.03	80.11	80.18	80.28
6									80.04	80.13	80.19	80.30
7									80.04	80.13	80.18	80.28
8									80.05	80.13	80.19	80.29
9									80.05	80.13	80.19	80.30
10									80.06	80.14	80.19	80.31
11									80.05	80.14	80.20	80.31
12									80.03	80.13	80.20	80.32
13									80.02	80.14	80.20	80.33
14									80.01	80.14	80.21	80.34
15									80.01	80.14	80.20	80.34
16									80.01	80.13	80.21	80.35
17									80.01	80.13	80.20	80.37
18									80.00	80.13	80.20	80.37
19									80.02	80.13	80.21	80.38
20									80.02	80.15	80.20	80.38
21									80.01	80.15	80.22	80.39
22									80.02	80.15	80.20	80.40
23									80.04	80.15	80.22	80.41
24									80.06	80.17	80.23	80.42
25									80.06	80.17	80.22	80.44
26									80.07	80.17	80.24	80.45
27								79.96	80.07	80.17	80.25	80.47
28								79.96	80.09	80.17	80.25	80.48
29								79.97	80.09	80.19	80.25	80.49
30								79.99	80.10	80.19	80.27	80.49
31								80.01		80.19		80.51

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 25

Observation Well No.:	43-05-004R
Location:	Albany River west of Hat Island, 51°45'N.; 83°55'W.
Elevation:	299.9' above sea level (ground surface)
Type:	Open end pipe 2 3/8" I. D.
Aquifer or Geological Materials:	Limestone
Depth:	150 feet
Recording Commenced:	August 3, 1968
Measuring Point:	Top of casing (approximately 3 ft. above ground surface)

Average daily water level below top of casing in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								13.43	14.55	13.27	12.89	13.24
2								13.47	14.57	13.08	12.87	12.89
3								13.59	14.50	12.90	12.91	12.95
4								13.68	14.36	12.96	12.87	13.14
5								13.71	14.42	13.09	12.70	13.15
6								13.81	14.53	13.10	12.65	
7								13.87	14.50	13.05	12.61	
8								13.86	14.39	13.09	12.73	
9								13.92	14.45	13.14	12.82	
10								14.01	14.42	13.05	12.79	
11								14.08	14.23	12.95	12.67	
12								14.09	14.30	13.07	12.81	
13								14.05	14.23	12.90	12.86	
14								14.09	14.20	12.87	12.98	
15								14.12	14.12	12.81	12.98	
16								14.15	13.93	12.87	12.79	
17								14.24	13.75	12.87	12.72	
18								14.34	13.63	12.74	12.82	
19								14.27	13.55	12.83	12.78	
20								14.24	13.50	12.80	12.74	
21								14.31	13.40	12.77	12.74	
22								14.39	13.32	12.79	12.74	
23								14.37	13.27	12.75	12.81	
24								14.43	13.44	12.78	12.82	
25								14.42	13.41	12.81	13.00	
26								14.42	13.36	12.81	13.02	
27								14.51	13.21	12.87	13.11	
28								14.43	13.24	12.92	13.32	
29								14.46	13.33	12.90	13.39	
30								14.52	13.18	12.89	13.10	
31								14.47		12.91		

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 26

Observation Well No.:	43-05-007-1
Location:	Kowkash Road west of Anaconda Road, 50°20'N.; 87°05'W.
Elevation:	978.32' (ground surface assuming elevation of bench mark is 1000 ft.)
Type:	Slotted pipe 1 1/4" I.D.
Aquifer or Geological Material:	Silt
Depth:	65 feet
Recording Commenced:	June 20, 1969
Measuring Point:	Top of casing (3.77 ft. above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 19	46.18	June 12/70 - Dec. 31/70 levels	
Feb. 18	44.50	affected by testing of well	
Mar. 11	46.29		
Apr. 8	46.43		
May 5	46.62		
May 17	46.87		
May 24	46.65		
June 3	47.12		

TABLE 27

Observation Well No.:	43-05-007-2
Location:	Kowkash Road west of Anaconda Road, 50°20'N.; 87°05'W.
Elevation:	978.30' (ground surface assuming elevation of bench mark is 1000 ft.)
Type:	Slotted pipe 1 1/4" I.D.
Aquifer or Geological Material:	Sandy till
Depth:	128 feet
Recording Commenced:	June 20, 1969
Measuring Point:	Top of casing (4.60 ft. above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 19	47.25	July 1	47.67
Feb. 18	48.03	July 3	47.75
Mar. 11	48.30	July 6	47.70
Apr. 8	48.35	July 14	47.73
May 5	48.71	July 30	47.40
May 17	48.09	Nov. 10	47.44
May 24	48.16	Dec. 14	47.61
June 3	48.13		

TABLE 28

Observation Well No.:	43-05-008-1
Location:	Anaconda Road north of Kowkash Road, 50°20'N.; 87°05'W.
Elevation:	999.82' (ground surface assuming elevation of bench mark is 1000 ft.)
Type:	Slotted pipe 1 1/4" I.D.
Aquifer or Geological Material:	Sand and silt
Depth:	29 feet
Recording Commenced:	August 18, 1969
Measuring Point:	Top of casing (4.30 ft. above ground level)

Jan. - Dec. /70 Dry

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 29

Observation Well No.:	43-05-008-2
Location:	Anaconda Road north of Kowkash Road, 50°20'N.; 87°05'W.
Elevation:	1000.04' (ground surface assuming elevation of bench mark is 1000 ft.)
Type:	Slotted pipe 1 1/4" I.D.
Aquifer or Geological Material:	Clay
Depth:	67 feet
Recording Commenced:	August 18, 1969
Measuring Point:	Top of casing (3.70 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 19	27.20	July 1	27.63
Feb. 18	27.50		
Mar. 11	27.64		
Apr. 8	27.51	July 18 - Dec. 31 levels affected	
May 5	28.04	by testing of well	
May 17	27.99		
May 24	27.88		
June 3	27.83		

TABLE 30

Observation Well No.:	43-05-009
Location:	18 miles north of Calstock, 50°04'N.; 84°08'W.
Elevation:	No bench mark
Type:	Slotted pipe 1 1/4" I.D.
Aquifer or Geological Material:	Gravel
Depth:	199 feet
Recording Commenced:	June 19, 1969
Measuring Point:	Top of casing (3.50 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 31	83.68	Aug. 8	84.70
Feb. 28	84.06	Sept. 4	84.98
Mar. 30	84.20	Sept. 30	85.01
May 3	84.88	Oct. 29	81.02
May 31	84.80	Dec. 16	85.15
July 4	83.79		

TABLE 31

Observation Well No.:	43-05-014-1
Location:	Hwy. 643 (1.5 miles west of Hwy. 584), 50°10'N; 86°49'W.
Elevation:	1112.17' above mean sea level (ground surface)
Type:	Sand point 1 1/2" I.D.
Aquifer or Geological Material:	Sand and gravel
Depth:	27 feet
Recording Commenced:	July 15, 1970
Measuring Point:	Top of casing (3.46 feet above ground level)

Distance to water level from ground surface

Date	Feet	Date	Feet
July 15	10.75	Sept. 11	11.76
July 25	10.79	Sept. 20	11.60
Aug. 1	10.79	Sept. 30	11.66
Aug. 9	11.18	Oct. 8	11.68
Aug. 11	11.10	Dec. 15	7.80
Sept. 3	11.50		

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 32

Observation Well No.: 43-05-014-2P
Location: Hwy. 643 (1.5 miles west of Hwy. 584), 50°10'N; 86°49'W.
Elevation: 1111.85' above mean sea level (ground surface)
Type: Open end pipe 2" I.D.
Aquifer or Geological Material: Clay
Depth: 93.5 feet
Recording Commenced: August 11, 1970
Measuring Point: Top of casing (4.50 ft. above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Aug. 11	11.44	Sept. 20	10.41
Sept. 3	10.25	Sept. 30	10.10
Sept. 11	10.33	Dec. 15	11.44

TABLE 33

Observation Well No.: 43-05-014-3P
Location: Hwy. 643 (1.5 miles west of Hwy. 584), 50°10'N.; 86°49'W.
Elevation: 1114.96' above mean sea level (top of casing)
Type: Ceramic piezometer
Aquifer of Geological Material: Sand and gravel
Depth: 46 feet
Recording Commenced: August 11, 1970
Measuring Point: Top of casing

Distance to water level from top of casing

Date	Feet	Date	Feet
Aug. 11	13.81	Sept. 20	14.50
Sept. 3	14.34	Sept. 30	15.04
Sept. 11	14.40	Dec. 15	15.91

TABLE 34

Observation Well No.: 43-05-014-4
Location: Hwy. 643 (1.5 miles west of Hwy. 584), 50°10'N.; 86°49'W.
Elevation: 1116.25' above mean sea level (top of casing)
Type: Open end pipe 2" I.D.
Aquifer or Geological Material: Clay
Depth: 93.5 feet
Recording Commenced: December 15, 1970
Measuring Point: Top of casing

Distance to water level from top of casing

Date	Feet
Dec. 15	19.37

TABLE 35

Observation Well No.: 43-05-015-2P
Location: Fleming Lake Road (Nakina area), 50°10'N.; 86°50'W.
Elevation: 1103.47' above mean sea level (top of casing)
Type: Ceramic piezometer
Aquifer or Geological Material: Sand
Depth: 95 feet
Recording Commenced: September 30, 1970
Measuring Point: Top of casing

Distance to water level from top of casing

Date	Feet
Sept. 30	29.40

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 36

Observation Well No.:	43-05-015-3P
Location:	Fleming Lake Road (Nakina area), 50°10'N.; 86°50'W.
Elevation:	1099.65 ' above mean sea level (ground surface)
Type:	Ceramic piezometer
Aquifer or Geological Material:	Silty sand
Depth:	46 feet
Recording Commenced:	July 15, 1970
Measuring Point:	Top of casing (2.88 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
July 15	2.83	Sept. 11	3.39
July 18	3.21	Sept. 19	3.35
Aug. 12	4.06	Sept. 30	3.82
Sept. 3	3.99	Dec. 15	3.48

TABLE 37

Observation Well No.:	43-05-016-1
Location:	Hwy. 643 (2 1/4 miles west of Hwy. 584), 50°10'N.; 86°51'W.
Elevation:	1107.81' above mean sea level (ground surface)
Type:	Open end pipe 2" I.D.
Aquifer or Geological Material:	Sand and gravel
Depth:	25 feet
Recording Commenced:	July 15, 1970
Measuring Point:	Top of casing (3.41 feet above ground surface)

Average daily water level from ground surface in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								8.71	9.06	9.15		
2									9.07	9.15		
3									9.07	9.17		
4									9.08	9.18		
5									9.10	9.18		
6									9.10	9.17		
7									9.10			
8									9.12	9.15		
9								8.80	9.12			
10									9.12			
11								8.43	9.13			
12									9.11			
13									9.12			
14									9.11			8.51
15							7.98		9.11			
16									9.10			
17									9.10			
18							8.51		9.09			
19									9.09			
20									9.11			
21									9.11			
22									9.11			
23									9.13			
24									9.13			
25							8.61		9.14			
26									9.14			
27									9.15			
28								9.04	9.16			
29								9.04	9.15			
30								9.04	9.17			
31								9.06				

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 38

Observation Well No.:	43-05-016-3P
Location:	Hwy. 643 (2 1/4 miles west of Hwy. 584), 50°10'N.; 86°51'W.
Elevation:	1110.64' above mean sea level (top of casing
Type:	Ceramic piezometer
Aquifer or Geological Material:	Silty sand
Depth:	45 feet
Recording Commenced:	July 18, 1970
Measuring Point:	Top of casing

Distance to water level from top of casing

Date	Feet	Date	Feet
July 18	11.25	Sept. 20	12.00
Aug. 11	11.52	Sept. 30	12.00
Sept. 3	11.82	Dec. 14	11.69
Sept. 11	11.93		

TABLE 39

Observation Well No.:	43-05-017-1P
Location:	Cordingley Road at Balkam Creek, 50°12'N.; 86°42'W.
Elevation:	994.15' above mean sea level (ground surface)
Type:	Ceramic piezometer
Aquifer or Geological Material:	Gravel
Depth:	30 feet
Recording Commenced:	August 11, 1970
Measuring Point:	Top of casing (3.02 feet above ground surface

Distance to water level from ground surface

Date	Feet	Date	Feet
Aug. 11	0.80	Sept. 20	0.86
Sept. 3	0.05	Sept. 30	0.92
Sept. 11	0.74	Dec. 16	frozen

TABLE 40

Observation Well No.:	43-05-017-2P
Location:	Cordingley Road at Balkam Creek, 50°12'N.; 86°42'W.
Elevation:	994.12' above mean sea level (ground surface)
Type:	Ceramic piezometer
Aquifer or Geological Material:	Silt
Depth:	15 feet
Recording Commenced:	September 3, 1970
Measuring Point:	Top of casing (3.04 feet above ground surface

Distance to water level from ground surface

Date	Feet	Date	Feet
Sept. 3	0.05	Sept. 30	0.79
Sept. 11	0.97	Dec. 16	frozen
Sept. 20	0.57		

TABLE 41

Observation Well No.:	43-05-018
Location:	North of Nakina, 50°12'N.; 86°40'W.
Elevation:	1019.04' above mean sea level (ground surface)
Type:	Open end pipe 2" I.D.
Aquifer or Geological Material:	Sand
Depth:	49 feet
Recording Commenced:	September 3, 1970
Measuring Point:	Top of casing (3.04 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Sept. 3	16.83	Sept. 30	16.45
Sept. 11	16.86	Dec. 16	17.17
Sept. 20	15.78		

OBSERVATION WELL DATA
ATTAWAPISKAT RIVER BASIN
1970

TABLE 42

Observation Well No.:	44-05-001
Location:	Badesdawa Lake Outlet, 51°51'N.; 89°36'W.
Elevation:	1130.2' (land surface) based on Inland Waters Branch bench mark
Type:	Open end pipe 2 3/8" I.D.
Aquifer or Geological Material:	Fine and very fine sand with some silt
Depth:	86.5 feet
Recording Commenced:	August 23, 1967
Measuring Point:	Top of casing (3.00 feet above ground surface

Average daily water level below ground surface in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1									40.79	39.52	39.92	40.40
2									40.81	39.49	39.94	40.45
3									40.83	39.48	39.93	40.52
4									40.87	39.49	39.91	40.59
5									40.91	39.50	39.86	40.65
6									40.96	39.53	39.79	40.71
7									41.00	39.56	39.74	40.76
8									41.04	39.59	39.71	40.80
9									41.04	39.63	39.69	40.84
10									41.01	39.64	39.68	40.89
11									40.91	39.65	39.68	40.93
12									40.70	39.67	39.69	40.97
13									40.52	39.66	39.69	41.01
14									40.36	39.65	39.70	41.05
15									40.22	39.63	39.70	41.09
16									40.09	39.62	39.71	41.13
17									40.00	39.60	39.72	41.17
18									39.93	39.59	39.74	41.21
19									39.89	39.58	39.76	41.25
20									39.86	39.57	39.80	41.28
21								40.57	39.84	39.58	39.85	41.32
22								40.59	39.82	39.59	39.91	41.36
23								40.61	39.82	39.61	39.97	41.39
24								40.63	39.80	39.63	40.02	41.41
25								40.65	39.76	39.67	40.06	41.45
26								40.67	39.71	39.70	40.09	41.48
27								40.69	39.67	39.75	40.16	41.52
28								40.71	39.62	39.79	40.24	41.56
29								40.73	39.59	39.83	40.31	41.59
30								40.75	39.56	39.86	40.36	41.62
31								40.77		39.90		41.65

OBSERVATION WELL DATA
SEVERN RIVER BASIN
1970

TABLE 43

Observation Well No.:	47-05-001R
Location:	Muskrat Dam Lake, 53°21'N.; 90°50'W.
Elevation:	891.4' above sea level (ground surface)
Type:	Open end pipe 2" I.D.
Aquifer or Geological Material:	Schist
Depth:	134.2 feet
Recording Commenced:	July 31, 1970
Measuring Point:	Top of casing (approximately 3 feet above ground surface

Average daily water level below top of casing in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								16.05		12.11	11.03	11.94
2								15.99		12.11	10.96	12.16
3								15.99		12.34	10.73	12.48
4								15.72		12.40	10.51	12.38
5								15.66		12.26	10.41	12.39
6								15.53		12.29	10.53	12.61
7								15.33		12.46	10.65	12.36
8								15.19		12.57	10.75	12.42
9								15.04		12.34	10.72	12.63
10								14.95		12.19	10.83	12.71
11								14.76		12.40	11.01	12.61
12								14.56		12.27	11.11	12.60
13								14.42		12.33	11.28	12.75
14								14.27		12.32	11.20	12.86
15								14.19		12.25	11.06	12.76
16								14.01		12.10	11.25	12.78
17								13.65		12.11	11.36	12.92
18								13.33		12.22	11.25	12.96
19								13.29		11.96	11.40	12.96
20										11.99	11.50	13.04
21										11.82	11.63	13.11
22										11.56	11.69	13.01
23										11.37	11.78	13.02
24										11.26	11.70	12.99
25										11.19	11.44	13.11
26										11.24	11.85	13.16
27										11.25	12.21	13.42
28										11.24	12.13	13.37
29									12.42	11.23	11.88	13.31
30									12.31	11.16	12.19	13.33
31							16.17			11.08		13.33

TABLE 44

CHEMICAL ANALYSES OF WATER SAMPLES

ALBANY RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total					
ALBANY RIVER	51°33'	88°33'	June 19	18x			0.10	14	1	1			2	1	0.04	<0.01d 0.43e	0.015		42		43x	125	85x	30x	6x
			July 20	21x																			89x		
			Aug. 21	20x		3.1	0.20	16	4	1			< 5	1		<0.01d 0.31e	0.014		45		46x	80	85x	30x	5x
			Sept.15	12x		2.8	0.15	18	3	1			3	1	0.00	<0.01d 0.36e	0.013		49		48	90	69x	30x	8x
BALKAM CREEK	50°11'	86°43'	June 25	19x		3.9	0.15	32	6	1			5	2	0.05	<0.01d 0.42e	0.013		100		102x	145	189x	5x	5x
			July 3			3.8	0.10	32	5	1			< 5	2		<0.01d 0.27e	0.006		105		100x	180		10x	20x
			July 6																		116x			5x	10x
			July 9																		112x			5x	10x
			July 11																		108x			5x	0x
			Aug. 19	22x		4.2	0.10	31	7	1			< 5	3		<0.01d 0.11e	0.003		106		120x	190	218x	5x	4x
CAT RIVER	51°31'	91°35'	June 2	13x			0.20						5			0.02d 0.39e	0.020						52x		
			June 25	17x		1.8	0.08	9	< 1	1			7	1		0.01d 0.39e	0.012		19		28x	120	50x		
			July 23	22x		2.4	0.15	10	1	1			7	2	0.00	<0.01d 0.50e	0.016		21		26x	85	52x		
			Aug. 19	20x		2.1	0.30	7	1	1			< 5	< 1		<0.01d 0.30e	0.016				50x	130		250+x	119+x
			Sept.23	13x		2.2	0.30	8	1	0.5			0	< 1		<0.01d 0.35e	0.013		24			60		40x	15x
CHEEPAY RIVER	51°27'	83°26'	May 22	9x		1.3	0.80	12	1	1			19	2	0.04	<0.01d 0.67e	0.040		31		34x	85	56x		25x
			June 30	18x		1.2	0.45	17	3	2			< 5	4		<0.01d 0.34e	0.012		49		50x	100	88x	70x	22x
			Sept.18	10x		2.8	0.60	19	2	2			8		<0.03	<0.01d 0.12e	0.032		47		60	140	71x		
KAWASHKAGAMA RIVER	50°26'	87°09'	May 24	10x			0.20	21	2	2				1		<0.01d 0.55e	0.023		63		68x	115	139x		18x
			June 16	19x			0.15	23	4	1			5	1	0.06	<0.01d 0.47e	0.024		69		72x	110	142x	20x	10x
			July 27	22x		3.4	0.25	27	3	1			< 5	< 1		<0.01d 0.30e	0.011		79		80x	90	174x	25x	18x
			Aug. 18	21x		4.1	0.25	26	6	1			< 5	2		<0.01d 0.37e	0.017		83		84x	120	160x	20x	12x

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

\+ - In Excess

* - Settled

TABLE 44 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

ALBANY RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million: Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Alkalinity as ppm $CaCO_3$: Phenolphthalein	Alkalinity as ppm $CaCO_3$: Total	Hardness as ppm $CaCO_3$: Calcium	Hardness as ppm $CaCO_3$: Total	Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
KEEZHIK LAKE - bottom	51°45'	88°30'	June 21	13x	7.5x	5.6	0.50	23	1	1			0	1	0.06	<0.01d 0.64e	0.041		71		72x	100	154x	20x	15x
			July 20	17x		3.0	0.10	22	3	1			< 5	1		<0.01d 0.14e	0.004		72			100	143x	10x	5x
			Aug. 13	17x		6.1	1.55	23	5	1			< 5	2		<0.01d 0.46e	0.022		75			90	154x	30x	10x
			Sept.13	13x		3.2	0.20	22	4	0.6			0	1		<0.01d 0.24e	0.013		71			110	138x	10x	10x
			Oct. 6	9x		2.8	0.20	26	2	0.6			3	1		<0.01d 0.36e	0.020		71			95	141x	10x	7x
KEEZHIK LAKE - composite	51°45'	88°30'	June 21	14x	7.9x	3.7	0.10	22	2	1			2	1	0.03	<0.01d 0.24e	0.034		70		70x	80	149x	10x	5x
			July 20	19x		2.4	0.10	8	2	1			< 5	< 1		<0.01d 0.30e	0.009		70			90	143x	10x	5x
			Aug. 13	23x		3.1	0.25	21	4	1			< 5	< 1		<0.01d 0.34e	0.011		72			90	138x	10x	5x
			Sept.13	13x			0.20	24	4	0.7			0	1		<0.01d 0.27e	0.011		70			100	138	10x	10x
			Oct. 6	9x		2.8	0.15	22	3	0.6			0	1		<0.01d 0.33e	0.013		70			95	141x	10x	2x
KENOGAMI RIVER	50°58'	84°36'	May 27	10x		2.4	0.35	18	4	1			6	1	0.03	<0.01d 0.50e	0.025		51		54x	90	96x		23x
			June 30	19x		2.3	0.30	22	4	1			< 5	2		<0.01d 0.42e	0.040		67		68x	120	122x	60x	22x
			July 25	23x		2.7	0.25	22	2	1			< 5	1		0.02d 0.35e	0.012		64		61x	100	138x	65x	28x
			Sept.16	10x		3.3	0.70	19	3	2			10	1	0.00	<0.01d 0.60e	0.040		47		60	140	68x	130x	25x
MOBERLEY LAKE	49°37'	90°34'	May 29	11x			0.45			0.8			7	1		0.03d 0.33e	0.014		13				35x		
			July 15	18x		6.4	0.33	6	1	1			7	1	< 0.03	0.01d 0.39e	0.024		15		24x	55	41x		
			Aug. 19	22x		6.3	0.40	5	3	1			< 5	2		<0.01d 0.22e	0.006		17		20x	25	42x	30x	
			Sept.21	15x			0.80	4	2	0.8			2	1		0.03d 0.37e	0.015		15			50		70x	23x
MUSWABIK RIVER	51°32'	85°05'	May 20	5x			0.40	14	1	1			7	1	0.04	<0.01d 0.43e	0.020				26x	50	75x		
			Aug. 21	16x		1.4	0.70	21	2	1			< 5	< 1		<0.01d 0.66e	0.020		56		61x	110	111x	70x	30x
			Sept.16	10x		1.7	0.65	18	3	1			12	1	0.00	<0.01d 0.56e	0.082		48		56	125	67x	125x	41x
OPICHUAN RIVER	51°10'	87°46'	May 19	7x			0.20	20	2	1			5	1	0.04	0.02d 0.48e	0.020		60		68x	130	76x		
			July 29	22x		2.7	0.05	17	4	1			< 5	1		<0.01d 0.21e	0.004		55		48x	100	108x	10x	9x
			Sept.13	14x		3.1	0.15	18	3	1			5	1	< 0.03	<0.01d 0.27e	0.011		56		60	100	85x	7x	11x

* indicates analysis performed in the Ontario Water Resources Commission Laboratory
** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N
e - Total Nitrogen

x - Field Analysis
+ - In Excess
* - Settled

TABLE 44 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

ALBANY RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million: Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Alkalinity as ppm $CaCO_3$: Phenolphthalein	Alkalinity as ppm $CaCO_3$: Total	Hardness as ppm $CaCO_3$: Calcium	Hardness as ppm $CaCO_3$: Total	Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
PASHKOKOGAN RIVER	51°02'	90°12'	May 30	14.5[x]			0.10						5			0.02[d] 0.30[e]	0.010						57[x]		
			July 15	23[x]		1.5	0.00	10	1	1			7	1	0.04	0.01[d] 0.43[e]	0.010		25		24[x]	75	64[x]		
			Aug. 1	20[x]		1.6	0.02	10	1	1			7	2	<0.03	0.01[d] 0.42[e]	0.015		26		30[x]	40	66[x]		
			Aug. 19	24[x]		1.5	0.15	8	3	1			< 5	2		<0.01[d] 0.31[e]	0.015		25		34[x]	90	54[x]	7[x]	5[x]
			Sept.24			1.5	0.20	9	1	0.5			0	< 1		<0.01[d] 0.29[e]	0.015		24			55		30[x]	10[x]
TROUTFLY LAKE - bottom	51°42'	88°53'	June 21	11[x]	7.9[x]	4.4	0.05	31	6	1			0	1	0.06	<0.01[d] 0.21[e]	0.008		107		108[x]	120	226[x]	5[x]	0[x]
			July 20	16[x]		4.1	0.10	32	6	1			< 5	2		<0.01[d] 0.26[e]	0.007		109			120	216[x]	0[x]	0[x]
			Aug. 13	17[x]	8.1[x]	6.1	0.30	34	6	1			< 5	2		<0.01[d] 0.26[e]	0.018		111			130	220[x]	10[x]	0[x]
			Sept.13	14[x]			0.15	32	6	1			0	1		<0.01[d] 0.27[e]	0.011		104			140	198[x]	0[x]	0[x]
			Oct. 6	10[x]			0.20	32	5	1			< 1	1		<0.01[d] 0.71[e]	0.019		104			130	211[x]	0	5
TROUTFLY LAKE - composite	51°42'	88°53'	June 21	13[x]	8.0[x]	4.4	0.05	31	6	1			0	1	0.03	<0.01[d] 0.17[e]	0.011		106		104[x]	110	216[x]	0[x]	0[x]
			July 20	19[x]		3.8	0.05	32	6	1			< 5	1		<0.01[d] 0.20[e]	0.005		106			120	204[x]	0[x]	0[x]
			Aug. 13	22[x]	8.4[x]	3.8	0.10	32	5	1			< 5	< 1		<0.01[d] 0.19[e]	0.004		105			110	204[x]	0[x]	0[x]
			Sept.13	14[x]		4.1	0.10	32	1	0.9			1	1		<0.01[d] 0.17[e]	0.008		106			120	198[x]	0[x]	5[x]
			Oct. 6	10[x]		3.8	0.10	37	3	1.0			0	2		0.01[d] 0.23[e]	0.006		104		104[x]	140	209[x]	0[x]	2[x]
WELL BK 3-2	50°10'	86°51'	July 17		7.7		0.80	66	8	3	2.3		10	2		<0.01[d]	0.042	0	192		196	220	353	10	80
WELL WS-1	50°14'	86°46'	July 21		7.6		0.25	86	6	6	5.6		8	8		0.26[d]	0.011	0	255		240		494	< 5	
WELL WS-94	49°42'	86°52'	Sept. 2		7.6	11.0	3.50	314	88	80	10.3		970	53	0.35	0.06[d] 0.52[e]	0.018	0	272		1152	1970	2154	30	4
WELL WS-95	49°40'	86°54'	Sept. 2		7.7	12.0	0.10	74	11	3	1.4		7	12	0.05	0.25[d] 0.12[e]	0.004	0	221		236	300	450	5	1.5
WELL WS-96	49°48'	86°34'	Sept. 2		7.0	16.0	0.10	146	22	15	1.5		7	39	0.08	0.44[d] 0.11[e]	0.001	0	431		454	560	883	< 5	1.5
WELL WS-97	49°48'	86°32'	Sept. 2		7.6	18.0	1.25	53	13	16	2.8		3	4	0.09	0.01[d] 0.46[e]	0.018	0	261		226	300	463	16	1.5
WELL WS-98	50°13'	86°58'	Sept. 5		7.4	12.2	0.30	63	10	3	0.7		3	22	0.04	0.07[d] 0.05[e]	0.110	0	169		198	260	386	< 5	3
WELL WS-99	50°13'	87°02'	Sept. 5		7.6	11.8	0.05	63	12	3	2.1		6	1	0.06	0.15[d] 0.26[e]	0.006	0	202		204	250	381	< 5	2

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

\+ - In Excess

* - Settled

TABLE 44 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

ALBANY RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total				
WELL WS-100	50°15'	86°40'	Sept. 5		7.6	22.9	0.40	97	19	9	2.0		< 1	2	0.11	0.02[d] 0.88[e]	0.004	0	339		320	360	601	20	3
WELL WS-101	50°12'	86°40'	Sept. 5		7.4	12.7	0.25	104	22	3	1.5		7	2	0.05	0.24[d] 0.10[e]	0.006	0	353		350	380	637	< 5	3
WELL WS-102	49°48'	86°28'	Sept. 5		7.6	8.9	0.15	50	6	2	0.9		7	3	0.04	0.22[d] 0.24[e]	0.005	0	137		148	180	236	15	1.5
WELL WS-103	49°07'	86°09'	Sept. 5		7.4	12.8	3.65	102	14	23	5.3		10	19	0.14	0.01[d] 1.00[e]	0.004	0	353		330	460	692	100	2
WELL WS-104	49°06'	86°09'	Sept. 5		7.4	8.0	0.05	101	16	4	1.0		8	9	0.08	3.70[d] 0.31[e]	0.003	0	289		318	360	588	< 5	1
WELL WS-105	49°48'	86°19'	Sept. 5		7.6	6.9	0.05	79	20	3	0.4		3	13	0.07	0.50[d] 0.15[e]	0.002	0	232		240	290	455	< 5	1
WELL WS-106	49°48'	86°14'	Sept. 5		7.5	7.6	0.10	70	11	2	0.8		10	2	0.06	0.01[d] 0.37[e]	0.024	0	218		220	260	413	< 5	4
WELL WS-107	49°48'	85°56'	Sept. 5		7.4	13.8	0.10	116	28	3	1.4		8	10	0.06	0.60[d] 0.27[e]	0.005	0	398		408	480	750	< 5	4
WELL WS-108	50°13'	86°40'	Sept. 5		7.4	7.2	0.30	57	9	1	0.3		4	1	0.05	0.04[d] 0.24[e]	0.002	0	117		180	240	331	< 5	
WELL WS-109	50°03'	86°45'	Sept. 5		7.5	7.3	0.05	61	11	1	0.6		9	1	0.06	0.11[d] 0.20[e]	0.002	0			198	230	373	< 5	
WELL WS-110	49°47'	86°56'	Sept.15		7.4	6.0	2.65	74	9	2	0.8		1	4	<0.03	0.01[d] 1.45[e]	0.115	0	214		220	265	393	150	6
WELL WS-111	49°45'	86°57'	Sept.15		7.5	8.6	0.15	80	14	5	0.7		14	12	<0.03	0.44[d] 0.26[e]	0.009	0	235		260	295	493	< 5	1

* indicates analysis performed in the Ontario Water Resources Commission Laboratory
** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N
e - Total Nitrogen

x - Field Analysis
\+ - In Excess
* - Settled

TABLE 45

CHEMICAL ANALYSES OF WATER SAMPLES

ATTAWAPISKAT RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total				
ATTAWAPISKAT LAKE - bottom	52°15'	87°55'	June 21	13x	7.5x	2.8	0.15	14	2	1			2	1	<0.03	<0.01d 0.30e	0.014		42			90	99x	40x	12x
			July 20	18x	7.8x	2.6	0.20	14	2	1			< 5	2		<0.01d 0.33e	0.011		46			80	90x	50x	15x
			Aug. 13	19x		2.9	0.25	12	4	1			< 5	<1		<0.01d 0.31e	0.018		45			70	94x	60x	20x
			Sept.13	13x		3.3	0.45	21	1	0.6			2	<1		<0.01d 0.42e	0.018		47			90	94x	70x	20x
			Oct. 6	8x			0.70	15	3	0.6			2	<1		<0.01d 0.50e	0.016		43			80	88x	85x	30x
ATTAWAPISKAT LAKE - composite	52°15'	87°55'	June 21	13x	7.7x	2.1	0.20	13	2	1			1	1	0.04	<0.01d 0.33e	0.017		41			85	94x	40x	15x
			July 20	19x	7.8x	2.3	0.20	16	2	1			< 5	2		<0.01d 0.35e	0.013		47			70	90x	50x	15x
			Aug. 13	22x		2.7	0.20	16	3	1			< 5	<1		<0.01d 0.35e	0.013		45			80	91x	70x	15x
			Sept.13	13x		3.1	0.35	16	2	0.6			1	1		<0.01d 0.37e	0.018		45			85	90x	70x	20x
			Oct. 6	8x		3.5	0.40	15	4	0.5			1	1		<0.01d 0.53e	0.012		44			120	88x	85x	20x
ATTAWAPISKAT RIVER	53°06'	85°05'	Aug. 16			2.8	0.30	18	3	1			5	1		<0.01d 0.36e	0.020		49			85			
			Sept.27			3.0	0.50	16	3	1			5	1		<0.01d 0.54e	0.035		41			80			
PINEIMUTA RIVER	52°18'	88°45'	July 16	20x		2.1	0.35	21	4	1			2	1		<0.01d 0.50e	0.017		64			100			

* indicates analysis performed in the Ontario Water Resources Commission Laboratory
** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N
e - Total Nitrogen

x - Field Analysis
\+ - In Excess
* - Settled

TABLE 46

CHEMICAL ANALYSES OF WATER SAMPLES

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phusphorus (P)	Phenolphthalein	Total	Calcium	Total				
ABITIBI RIVER	50°36'	81°25'	Oct. 21			3.7	1.30	22	5	2			17	2		0.01[d] 0.58[e]	0.052		63			130			
KAPUSKASING RIVER	49°25'	82°26'	July 8			3.9	0.70	24	3	3			17	3		<0.01[d] 0.69[e]	0.020		67			155			
			Aug. 20			5.0	1.60	24	6	4			25	6		<0.01[d] 1.00[e]	0.095		60			210			
			Sept.15			5.0	0.70	24	5	2			21	5		<0.01[d] 0.77[e]	0.072		59			200			
			Oct. 27			5.1	0.95	30	8	4			26	9		<0.01[d] 1.00[e]	0.160		55			380			
LAC STE. THERESE	49°48'	83°39'	July 21		7.3		0.40	23	2	1	0.6			2		0.01[d]	0.029	0	61		68	130	117	140	6
MISSINAIBI RIVER	49°37'	83°16'	July 8			3.5	0.45	20	6	1			12	1		<0.01[d] 0.85[e]	0.023		64			120			
			Aug. 19			3.5	0.30	24	1	1			9	1		<0.01[d] 0.37[e]	0.017		58			110			
			Sept.15			4.4	0.55	28	3	1			5	1		<0.01[d] 0.56[e]	0.032		74			140			
			Oct. 27			4.0	1.25	26	5	1			12	2		<0.01[d] 0.61[e]	0.053		72			125			
MOOSE RIVER	50°49'	81°18'	Oct. 20			3.7	0.60	24	3	2			11	3		<0.01[d] 0.50[e]	0.026		63			125			
SHEKAK RIVER (Albany River Basin)	49°45'	84°24'	July 7				0.20	37	6	1			8	1		<0.01[d] 0.70[e]	0.024		111			140			
			Aug. 12			4.6	0.30	37	8	1			5	2		<0.01[d] 0.49[e]	0.020		122			150			
			Sept.17			4.5	0.20	34	5	1			3	1		<0.01[d] 0.45[e]	0.023		99			160			
WELL WS-2	49°43'	80°53'	July 21		7.5		1.00	92	14	13	2.6		4	2		<0.01[d]	0.027	0	325		288	350	579	< 5	4
WELL WS-3	49°28'	83°53'	July 21		7.4		0.20	107	5	2	0.3		5	3		0.75[d]	0.009	0	294		288	290	547	< 5	4
WELL WS-4	49°32'	83°50'	July 21		7.3		0.75	104	14	8	4.5		21	10		<0.01[d]	0.004	0	329		320	330	642	10	6
WELL WS-5	49°35'	83°45'	July 21		7.3		2.60	138	8	35	0.2		6	8		<0.01[d]	0.053	0	461		376	490	806	30*	10
WELL WS-6	49°36'	83°41'	July 21		7.5		1.00	88	6	35	4.0		2	6		<0.01[d]	0.140	0	322		244	380	578	5	10
WELL WS-7	49°40'	83°42'	July 21		7.4		4.70	110	7	21	2.3		6	12		<0.01[d]	0.190	0	345		304	400	641	50*	30
WELL WS-8	49°45'	83°39'	July 21		7.3		0.10	122	12	11	1.0		6	44		0.17[d]	0.004	0	356		356	525	767	< 5	3
WELL WS-9	49°48'	83°39'	July 21		7.4		0.15	126	20	6	1.4		7	2		0.20[d]	0.007	0	418		400	480	733	< 5	
WELL WS-10	49°47'	83°47'	July 22		7.7		0.45	74	11	29	3.9		< 1	3		<0.01[d]	0.064	0	305		224	340	547	< 5	4
WELL WS-11	49°40'	80°32'	July 22		7.1		0.05	170	32	19	3.8		15	103		0.39[d]	0.005	0	452		556	840	1120	< 5	

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

\+ - In Excess

* - Settled

TABLE 46 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total				
WELL WS-12	49°40'	83°31'	July 22		7.1		0.35	197	40	29	3.4		15	156		2.00[d]	0.009	0	459		660	1185	1370	5	4
WELL WS-13	49°38'	83°19'	July 22		7.3		4.10	128	24	10	2.2		56	14		<0.01[d]	0.067	0	386		420	545	809	20*	30
WELL WS-14	49°36'	83°16'	July 22		7.6		2.05	74	18	33	1.5		< 1	6		<0.01[d]	0.063	0	342		260	420	620	15	4
WELL WS-15	49°35'	83°08'	July 22		7.3		1.35	120	27	8	1.4		19	11		<0.01[d]	0.006	0	406		412	500	767	25	20
WELL WS-16	49°33'	82°53'	July 22		7.4		1.90	78	15	10	2.9		2	5		<0.01[d]	0.079	0	273		260	340	495	25*	15
WELL WS-17	49°32'	82°52'	July 22		7.4		2.65	104	16	7	3.5		2	3		<0.01[d]	0.045	0	346		328	400	630	< 5	
WELL WS-18	49°30'	82°43'	July 22		7.6		1.70	96	24	27	2.9		2	8		<0.01[d]	0.049	0	408		340	460	725	20*	10
WELL WS-19	49°28'	82°37'	July 22		7.1		0.90	146	22	15	2.3		3	19		0.10[d]	0.018	0	456		456	545	855	15	6
WELL WS-20	49°26'	82°31'	July 22		7.5		0.75	130	13	12	5.7		2	14		<0.01[d]	0.008	0	405		380	460	735	10	4
WELL WS-21	49°24'	82°30'	July 22		7.7		0.45	53	5	65	3.0		31	3		<0.01[d]	0.068	0	268		152	380	547	10	4
WELL WS-22	49°25'	82°22'	July 22		7.6		1.80	93	20	21	3.5		< 1	1		<0.01[d]	0.099	0	372		316	400	641	15	15
WELL WS-23	49°21'	82°22'	July 22		7.7		2.40	110	12	3	1.2		< 1	2		<0.01[d]	0.018	0	339		324	385	599	10	6
WELL WS-24	49°23'	82°15'	July 23		7.4		0.25	128	24	11	3.6		5	11		0.70[d]	0.032	0	408		420	450	746	< 5	15
WELL WS-25	49°18'	82°12'	July 23		7.7		0.65	51	15	49	3.6		< 1	2		<0.01[d]	0.082	0	301		192	350	531	< 5	3
WELL WS-26	49°25'	82°08'	July 23		7.5		0.40	86	18	13	3.7		< 1	2		<0.01[d]	0.006	0	355		292	380	722	< 5	4
WELL WS-27	49°20'	82°09'	July 23		7.3		0.90	132	17	33	2.9		20	30		0.21[d]	0.032	0	398		400		807	< 5	
WELL WS-28	49°19'	80°02'	July 23		7.2		0.40	190	29	43	4.0		31	87		0.72[d]	0.014	0	545		596		1260	5	
WELL WS-29	49°17'	81°55	July 23		7.6		2.40	88	23	14	3.4		2	2		<0.01[d]	0.018	0	352		316		607	25	
WELL WS-30	49°16'	81°48'	July 23		7.5		2.40	110	19	6	2.4		1	2		<0.01[d]	0.050	0	373		356		660	25	
WELL WS-31	49°52'	81°06'	July 23		7.4		0.45	99	4	2	1.0		9	2		0.08[d]	0.021	0	260		266		480	40	
WELL WS-32	49°17'	81°42'	July 24		7.7		0.60	66	7	24	1.7		< 1	3		<0.01[d]	0.040	0	329		192		590	< 5	
WELL WS-33	49°14'	81°38'	July 24		8.0		0.55	40	16	62	3.8		< 1	2		<0.01[d]	0.035	0	310		168		558	< 5	
WELL WS-34	49°12'	81°26'	July 24		7.4		2.50	116	7	6	3.0		< 1	38		<0.01[d]	0.008	0	346		320		724	too turbid	<150
WELL WS-35	49°08'	81°23'	July 24		7.0		2.50	84	12	15	7.8		3	25		0.01[d]	0.720	0	241		260		509	250*	60

* indicates analysis performed in the Ontario Water Resources Commission Laboratory
** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N
e - Total Nitrogen

x - Field Analysis
+ - In Excess
* - Settled

TABLE 46 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total				
WELL WS-36	49°10'	81°16'	July 24		7.3		2.25	110	23	6	4.2		< 1	1		<0.01[d]	0.091	0	396		372		693	< 5	
WELL WS-37	49°07'	81°17'	July 24		7.5		1.60	66	32	17	9.8		< 1	1		<0.01[d]	0.037	0	347		296		607	15	
WELL WS-38	49°03'	81°11'	July 24		7.4		0.60	43	21	4	1.0		6	4		0.02[d]	0.010	0	134		132		262	70*	
WELL WS-39	49°07'	81°09'	July 24		7.2		6.50	108	23	24	4.2		9	1		<0.01[d]	0.058	0	449		364		775	15	
WELL WS-40	49°05'	81°03'	July 24		7.5		2.70	90	8	6	4.2		6	1		<0.01[d]	0.028	0	322		256		573	< 5	
WELL WS-41	49°10'	81°04'	July 24		6.9		0.70	147	23	8	5.2		9	14		<0.01[d]	0.090	0	453		460		841	150*	50
WELL WS-42	49°15'	81°04'	July 24		7.6		1.25	104	19	4	0.5		6	4		5.30[d]	0.017	0	316		340		629	15	
WELL WS-43	49°17'	81°07'	July 24		7.6		1.35	66	13	28	4.7		5	2		0.01[d]	0.076	0	324		220		575	65	
WELL WS-44	49°12'	80°01'	July 24		7.3		0.20	112	18	13	1.4		14	12		2.10[d]	0.005	0	384		356		743	< 5	
WELL WS-45	49°07'	80°59'	July 24		7.5		1.10	94	22	5	4.0		< 1	1		0.02[d]	0.034	0	354		328		627	< 5	
WELL WS-46	49°05'	80°58'	July 24		7.4		1.45	104	20	13	3.7		5	1		<0.01[d]	0.070	0	385		344		671	< 5	
WELL WS-47	49°06'	80°50'	July 25		7.4		0.55	103	21	4	1.6		10	3		<0.01[d]	0.003	0	361		344		666	< 5	
WELL W3-48	49°04'	80°49'	July 25		7.4		0.85	82	12	5	1.8		6	1		<0.01[d]	0.016	0	297		254		532	< 5	
WELL WS-49	49°00'	80°48'	July 25		7.2		0.35	107	19	10	1.7		13	12		3.20[d]	0.008	0	365		348		713	< 5	
WELL WS-50	48°58'	80°44'	July 25		7.4		0.15	99	16	14	2.4		10	2		0.12[d]	0.005	0	390		316		701	< 5	
WELL WS-51	49°03'	80°54'	July 25		7.4		1.25	94	19	18	2.5		7	1		0.02[d]	0.078	0	378		316		671	< 5	
WELL WS-52	49°02'	81°02'	July 25		7.6		1.10	68	21	15	4.2		1	2		0.01[d]	0.026	0	322		256		562	5	
WELL WS-53	48°58'	81°00'	July 25		7.5		0.85	64	5	5	3.3		5	1		0.02[d]	0.018	0	224		180		410	< 5	
WELL WS-54	48°52'	80°52'	July 25		7.0		12.50	112	14	53	3.0		2	77		0.06[d]	1.000	0	362		340		900	200*	70
WELL WS-55	48°47'	80°49'	July 25		7.5		2.05	83	18	10	2.1		5	9		0.28[d]	0.031	0	291		284	330	551	15	
WELL WS-56	48°44'	80°40'	July 25		7.7		7.40	77	25	33	4.3		< 1	3		<0.01[d]	0.028	0	360		296		621	5	
WELL WS-57	48°42'	80°39'	July 25		7.2		1.65	146	8	11	0.7		< 1	4		<0.01[d]	0.006	0	426		396	490	642	15	
WELL WS-58	48°40'	80°41'	July 25		7.4		0.45	115	19	7	2.5		< 1	2		0.03[d]	0.013	0	384		368	420	668	5	
WELL WS-59	48°42'	79°11'	July 25		7.4		0.10	128	19	17	2.0		7	23		0.12[d]	0.005	0	410		400		782	10	

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

\+ - In Excess

* - Settled

TABLE 46 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total				
WELL WS-60	48°39'	80°52'	July 25		7.6		6.50	91	28	10	3.2		< 1	1		<0.01[d]	0.024	0	368		344	380	642	5	
WELL WS-61	48°34'	80°54'	July 25		7.6		0.15	32	2	2	0.9		5	7		0.34[d]	0.010	0	82		90	160	194	< 5	
WELL WS-62	48°33'	80°55'	July 25		7.7		0.85	64	14	3	1.5		< 1	1		<0.01[d]	0.048	0	221		220	280	396	< 5	
WELL WS-63	48°27'	81°27'	July 27		7.8		0.10	79	13	2	0.4		< 1	7		0.21[d]	0.001	0	244		250	360	453	< 5	
WELL WS-64	48°17'	81°47'	July 27		7.0		0.20	18	3	1	0.7		5	2		0.39[d]	0.001	0	46		55	100	168	< 5	4
WELL WS-65	48°14'	82°10'	July 27		7.4		1.10	34	5	77	1.2		8	118		4.30[d]	0.011	0	69		106	320	568	< 5	4
WELL WS-66	48°15'	82°27'	July 27		7.6		0.25	82	24	17	1.6		6	38		0.22[d]	0.001	0	279		300	360	610	< 5	1
WELL WS-67	48°10'	82°36'	July 27		7.8		1.35	77	9	7	4.7		8	22		2.20[d]	0.007	0	208		228				
WELL WS-68	47°58'	82°57'	July 27		7.0		0.05	37	3	2	2.0		8	3		1.10[d]	0.002	0	94		104	170	240	< 5	3
WELL W3-69	47°43'	83°20'	July 27		7.5		0.55	32	2	2	0.7		10	2		0.06[d]	0.002	0	83		90	140	191	15	3
WELL WS-70	47°51'	83°26'	July 27		7.0		0.10	78	12	5	1.9		11	9		4.90[d]	0.112	0	223		244	400	450	< 5	2
WELL WS-71	48°10'	82°30'	July 27		7.7		1.10	68	5	2	1.3		9	2		<0.01[d]	0.009	0	193		192	240	375	20	2
WELL WS-72	47°41'	81°43'	July 28		7.8		0.10	30	2	10	1.7		8	4		1.40[d]	0.032	0	87		84	160	226	< 5	1
WELL WS-73	48°35'	81°37'	July 29		7.6		2.35	70	17	4	7.1		< 1	2		0.01[d]	0.110	0	277		252	300	460	< 5*	8
WELL WS-74	48°32'	81°22'	July 29		7.4		3.10	129	22	7	2.0		8	2		<0.01[d]	0.012	0	423		412	440	696	< 5	10
WELL WS-75	48°42'	81°23'	July 29		7.6		1.90	66	22	43	2.4		< 1	13		<0.01[d]	0.085	0	318		248	360	590	< 5	6
WELL WS-76	48°23'	81°07'	July 29		7.3		0.15	34	5	16	2.8		7	25		1.50[d]	0.005	0	94		104	260	313	< 5	1.5
WELL WS-77	48°58'	81°03'	July 29		7.5		0.40	107	26	12	2.4		2	7		0.12[d]	0.012	0	397		376	420	658	< 5	2
WELL WS-78	48°42'	81°02'	July 29		8.1		2.90	24	2	1	0.6		8	2		0.01[d]	0.017	0	63		68	130	197	25	12
WELL WS-79	48°37'	80°46'	July 30		7.8		2.80	80	17	8	2.2		< 1	2		<0.01[d]	0.029	0	288		270	320	466	< 5	8
WELL WS-80	48°32'	80°41'	July 30		7.7		0.30	77	30	20	3.7		< 1	3		0.30[d]	0.008	0	371		316	400	630	< 5	2
WELL WS-81	48°29'	80°39'	July 30		7.5		0.25	114	26	5	0.5		2	2		0.26[d]	0.009	0	405		392	400	698	< 5	2
WELL WS-82	48°32'	80°32'	July 30		7.4		0.75	121	19	32	1.1		13	73		0.75[d]	0.017	0	361		380	500	872	< 5	3
WELL WS-83	48°35'	80°33'	July 30		7.4		0.80	55	2	2	0.9		7	2		0.30[d]	0.005	0	148		148		289	5	

* indicates analysis performed in the Ontario Water Resources Commission Laboratory
** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N
e - Total Nitrogen

x - Field Analysis
\+ - In Excess
* - Settled

TABLE 46 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total				
WELL WS-84	48°30'	80°28'	July 30		7.8		0.10	35	3	1	0.5		7	2		0.08[d]	0.003	0	101		102		201	< 5	
WELL WS-85	48°28'	80°25'	July 30		7.1		0.10	24	1	2	0.4		8	2		1.20[d]	0.003	0	57		64		142	< 5	
WELL WS-86	48°25'	80°20'	July 30		7.9		0.30	61	5	3	0.9		8	2		<0.01[d]	0.001	0	173		172		331	< 5	
WELL WS-87	48°21'	80°14'	July 30		7.2		0.20	37	4	6	0.7		9	5		2.20[d]	0.003	0	106		108		243	< 5	
WELL WS-88	48°17'	80°15'	July 30		7.3		1.30	138	21	20	1.8		44	29		<0.01[d]	0.014	0	392		432		837	< 5	
WELL WS-89	48°29'	80°20'	July 30		7.6		0.75	82	28	14	3.1		7	3		0.20[d]	0.015	0	349		320		622	< 5	
WELL WS-90	48°36'	80°38'	July 31		7.6		0.70	83	20	21	3.5		< 1	2		<0.01[d]	0.015	0	345		292		601	< 5	
WELL WS-91	48°36'	80°27'	July 31		7.4		0.15	142	92	11	1.6		10	26		3.90[d]	0.003	0	420		448		842	< 5	
WELL WS-92	48°35'	80°09'	July 31		6.5		0.40	14	1	3	0.4		7	5		0.56[d]	0.007	0	34		40		92	< 5	
WELL WS-93	48°32'	80°19'	July 31		7.4		4.25	191	24	10	2.7		9	59		<0.01[d]	0.010	0	513		580		1052	15	

* indicates analysis performed in the Ontario Water Resources Commission Laboratory
** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N
e - Total Nitrogen

x - Field Analysis
+ - In Excess
* - Settled

TABLE 47

CHEMICAL ANALYSES OF WATER SAMPLES

SEVERN RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total				
BIG TROUT LAKE - bottom	53°45'	90°00'	June 18	7[x]	7.9[x]	1.10	0.05	18	2	1			2	1	0.05	<0.01[d] 0.24[e]	0.016		57		66[x]	110	105[x]	10[x]	5[x]
			July 5	10[x]	7.7[x]	0.90	0.10	18	1	1			1	1	<0.03	<0.01[d] 0.30[e]	0.016		54			100	116[x]	10[x]	5[x]
			July 19	10[x]		1.20	0.15	18	2	1			<5	1		<0.01[d] 0.24[e]	0.020		56			90	116[x]	10[x]	5[x]
			Aug. 6	14[x]		1.70	0.20	18	2	1			<5	1		<0.01[d] 0.13[e]	0.016		55			90	116[x]	10[x]	5[x]
			Aug. 16	12[x]	7.3[x]	2.30	0.15	19	2	1			<5	1		<0.01[d] 0.18[e]	0.011		56			90	116[x]	15[x]	5[x]
			Sept.28	10[x]		0.90	0.40	14	3	0.6			2	1		<0.01[d] 0.36[e]	0.017		55			50	110[x]	10[x]	3[x]
BIG TROUT LAKE - composite	53°45'	90°00'	June 18	7[x]	7.9[x]	1.10	1.50	22	1	1			1	1	0.06	<0.01[d] 0.27[e]	0.013		57		58[x]	85	121[x]	10[x]	5[x]
			July 5	15[x]	7.7[x]	0.70	0.05	18	1	1			0	1	<0.03	<0.01[d] 0.33[e]	0.032		54			80	112[x]	10[x]	10[x]
			July 19	15[x]		0.60	0.05	19	1	1			<5	<1		<0.01[d] 0.13[e]	0.007		56			140	113[x]	10[x]	5[x]
			Aug. 6	18[x]		0.80	0.10	16	5	1			<5	<1		<0.01[d] 0.36[e]	0.014		56			60	116[x]	10[x]	5[x]
			Aug. 16	18[x]	8.3[x]	0.80	0.30	17	2	1			<5	3		<0.01[d] 0.25[e]	0.006		55			90	108[x]	10[x]	0[x]
			Sept.28	10[x]		0.90	0.15	18	4	0.6			0	1		<0.01[d] 0.30[e]	0.014		55			75	108[x]	10[x]	4[x]
BIG TROUT LAKE - bog	53°51'	89°53'	June 28	20[x]	7.7[x]	2.70	0.15	18	2	1			6	1	0.13	<0.01[d] 0.44[e]	0.016		49		52[x]	90	105[x]	85[x]	30[x]
			July 21	22[x]		2.40	0.20	21	2	1			<5	<1		<0.01[d] 0.51[e]	0.009		56			110	116[x]	85[x]	20[x]
			Aug. 5	19[x]		2.70	0.20	22	2	1			<5	1		0.02[d] 0.54[e]	0.014		58		62[x]	120	116[x]	85	20[x]
			Aug. 16	18[x]		3.10	0.50	23	2	1			<5	<1		<0.01[d] 0.24[e]	0.007		60			120	127[x]	85[x]	20[x]
DOG LAKE	54°35'	89°36'	Aug. 11	22[x]	8.2[x]	0.50	0.15	14	1	1			<5	2		<0.01[d] 0.39[e]	0.015		40		40[x]	60	77[x]	20[x]	10[x]
FLANAGAN RIVER	52°49'	93°27'	June 2	14[x]			0.15						5			0.02[d] 0.32[e]	0.008				44[x]		79[x]		
			July 18	20[x]		4.30	2.25	13	4	1			9	1	<0.03	<0.01[d] 0.52[e]	0.069		41			155	92[x]		
			July 30	23[x]		4.30	3.36	14	3	1			<1	1	0.03	0.01[d] 0.57[e]	0.094		41		44[x]	145	74[x]		
HARVEY LAKE	55°38'	88°21'	Aug. 3	14[x]		0.70	0.25	8	3	1			<5	4		<0.01[d] 0.58[e]	0.020		38		40[x]	70	88[x]	20[x]	10[x]
MORRISON RIVER	53°48'	91°50'	June 22	17[x]		1.20	0.40	14	2	1			7	1	<0.03	<0.01[d] 0.57[e]	0.033		34		44[x]	150	88[x]		
			July 19	20[x]		2.20	0.80	14	3	1			7	1	<0.03	0.01[d] 0.46[e]	0.031		40		48[x]	195	87[x]		

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

\+ - In Excess

* - Settled

TABLE 47 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

SEVERN RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million												Alkalinity as ppm $CaCO_3$		Hardness as ppm $CaCO_3$		Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
						Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total				
MORRISON RIVER (continued)	53°48'	91°50'	July 29			2.20	0.14	16	2	1			7	1	0.04	<0.01[d] 0.53[e]	0.022		45			95			
			Aug. 21	17[x]		2.30	0.50	18	3	1			< 5	1		<0.01[d] 0.47[e]	0.022		53		56[x]	80	111[x]	30[x]	8[x]
NORTH SPIRIT LAKE - bottom	52°30'	92°55'	June 21	11[x]	7.6[x]	3.62	0.20	10	1	1			0	1	<0.03	<0.01[d] 0.38[e]	0.023		26		28[x]	80	61[x]	70[x]	25[x]
			July 20	12[x]		3.70	0.30	8	2	1			< 5	< 1		<0.02[d] 0.29[e]	0.012		27			60	61[x]	70[x]	20[x]
			Aug. 13	15[x]		4.30	0.30	10	2	1			< 5	2		<0.01[d] 0.30[e]	0.018		26			60	61[x]	70[x]	20[x]
			Sept.11	15[x]		3.00	0.40	10	2	0.9			< 1	1		<0.01[d] 0.35[e]	0.101		26			80	60[x]	70[x]	15[x]
			Oct. 5	10[x]			0.25	10	1	0.7			< 1	< 1		<0.01[d] 0.35[e]	0.015		27			60	61	50[x]	18[x]
NORTH SPIRIT LAKE - composite	52°30'	92°55'	June 21	15[x]	8.4[x]	3.30	0.15	8	2	1			5	1	<0.03	<0.01[d] 0.40[e]	0.039		26		32[x]	80	55[x]	50[x]	30[x]
			July 20	21[x]		2.60	0.20	8	2	1			< 5	< 1		<0.01[d] 0.40[e]	0.013		26			80	58[x]	70[x]	20[x]
			Aug. 13	23[x]		2.80	0.20	10	2	1			< 5	< 1		<0.01[d] 0.40[e]	0.014		28			80	57[x]	70[x]	20[x]
			Sept.11	15[x]		2.90	0.25	10	4	0.9			1	1		<0.01[d] 0.35[e]	0.012		27			60	57[x]	70[x]	15[x]
			Oct. 5	11[x]		3.40	0.25	10	4	0.7			< 1	1		<0.01[d] 0.33[e]	0.015		29			50	61[x]	60[x]	15[x]
OTTER LAKE	54°11'	88°55'	Aug. 11	23[x]	8.0[x]	0.50	0.30	10	1	1			< 5	2		<0.01[d] 0.75[e]	0.030		25		24[x]	80	52[x]	30[x]	12[x]
ROSEBERRY LAKE - bottom	52°37'	92°31'	June 21	8[x]	7.6[x]	5.00	0.25	10	2	1			4	1	0.04	0.04[d] 0.85[e]	0.057		32		36[x]	80	75[x]	70[x]	24[x]
			July 20	8[x]		4.60	0.30	11	1	1			< 0.5	< 1		0.06[d] 0.32[e]	0.028		33			60	68[x]	70[x]	20[x]
			Aug. 13	8[x]		4.60	0.35	11	1	1			< 0.5	< 1		0.06[d] 0.35[e]	0.032		34			70	64[x]	70[x]	24[x]
			Sept.11	8[x]		5.70	0.60	11	3	1.1			3	< 1		<0.01[d] 0.38[e]	0.042		34			70	72[x]	70[x]	20[x]
			Oct. 5	9[x]		3.80	0.40	11	2	0.9			< 1	< 1		0.02[d] 0.48[e]	0.016		33		38[x]	60	75[x]	60[x]	15[x]
ROSEBERRY LAKE-composite	52°37'	92°31'	June 21	16[x]	7.6[x]	4.20	0.25	10	2	1			5	1	<0.03	<0.01[d] 0.37[e]	0.022		31		32[x]	80	72[x]	60[x]	35[x]
			July 20	21[x]		3.00	0.20	11	2	1			< 5	< 1		<0.01[d] 1.10[e]	0.016		32			70	66[x]	70[x]	20[x]
			Aug. 13	23[x]		3.10	0.30	8	3	1			< 5	2		<0.01[d] 0.37[e]	0.019		33			60	66[x]	70[x]	20[x]
			Sept.11	15[x]		3.10	0.40	11	3	1.1			0	1		<0.01[d] 0.38[e]	0.012		35			85	68[x]	70[x]	15[x]
			Oct. 5	9[x]			0.30	11	2	1.1			2	2		<0.01[d] 0.37[e]	0.015		33			110	72[x]	70[x]	15[x]

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

\+ - In Excess

* - Settled

TABLE 47 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

SEVERN RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million: Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Alkalinity as ppm $CaCO_3$: Phenolphthalein	Alkalinity as ppm $CaCO_3$: Total	Hardness as ppm $CaCO_3$: Calcium	Hardness as ppm $CaCO_3$: Total	Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
SACHIGO RIVER -inflow	53°42'	92°17'	July 18	18x		3.10	0.22	17	2	1			7	1	<0.03	0.01d 0.48e	0.020		47		48x	115	105x		
			July 29	20x		3.00	0.26	19	2	1			7	1	0.03	<0.01d 0.48e	0.017		53		60x	105	117x		
SANDY LAKE	53°00'	93°00'	Aug. 13	23x	8.2x	3.60	1.50	16	5	1			6	2		<0.01d 0.88e	0.066		47			100	96x	125x	55x
			Sept. 5	16x	7.8x	4.20	1.60	18	6	1.4			11	1		<0.01d 0.41e	0.050		43		44x	120	88x	100x	45x
			Oct. 5	7x		4.70	3.90	15	3	1.6			18	1		<0.01d 0.70e	0.060		50			110	99x	150x	80x
SANDYBANK LAKE	54°50'	89°44'	June 26		7.8x	0.90	0.15	13	1	1			2	1	<0.03	<0.01d 0.48e	0.016		37		40x	80	83x	15x	12x
			July 18	19x		0.70	0.30	14	2	1			< 5	2		<0.01d 0.52e	0.016		41			80	83x	15x	18x
			Aug. 4	16x		1.10	0.45	15	1	1			< 5	< 1		<0.01d 0.60e	0.036		43		42x	120	88x	30x	15x
			Aug. 13	23x				14	3	1			< 5	< 1		<0.01d 0.36e	0.028		49			90	88x	30x	8x
			Sept. 7	16x	8.1x	1.30	0.30	16	3	0.6			0	1		<0.01d 0.37e	0.011		46		48x	90	89x	20x	13x
SCHADE RIVER	53°33'	91°09'	June 1	12x			0.35						7			0.01d 0.40e	0.021						66x		
			July 20	18x		2.00	0.05	13	1	1			7	1	<0.03	0.01d 0.49e	0.015		33		48x	75	76x		
			July 31	25x		2.10	0.16	14	1	1			7	1	0.03	0.01d 0.36e	0.016		35		40x	85	70x		
			Aug. 20	18x		2.50	0.30	14	2	1			< 5	2		<0.01d 0.38e	0.011		39		39x	100	84x	30x	23x
			Sept.28			3.00	0.40	14	3	0.8			2	1		<0.01d 0.46e	0.017		41			85		70x	10x
SEVERN RIVER	55°23'	88°19'	July 13			2.50	0.85	21	3	1.1			5	1		<0.01d 0.51e	0.029		58			110			
SAYER LAKE	55°00'	87°45'	Aug. 11	22x	8.1x	0.20	0.10	10	1	1			< 5	2		<0.01d 0.18e	0.006		28		28x	40	61x	30x	10x
TEEPEESTICK LAKE	54°39'	89°30'	June 26	13x	7.8x	0.32	0.10	14	2	1			2	1	<0.03	<0.01d 0.38e	0.018		38		40x	60	77x	20x	10x
			July 18	17x		0.40	0.20	14	1	1			< 5	2		<0.01d 0.45e	0.014		41			70	83x	15x	10x
			Aug. 13	22x		0.70	0.20	13	2	1			< 5	< 1		0.04d 0.47e	0.015		40			50	79x	30x	10x
			Sept. 7	15x	7.4x	0.10	0.20	14	2	0.8			0	1		<0.01d 0.37e	0.011		40		40x	60	88x	15x	10x

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

\+ - In Excess

* - Settled

TABLE 48

CHEMICAL ANALYSES OF WATER SAMPLES

WINISK RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million: Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Alkalinity as ppm $CaCO_3$: Phenolphthalein	Alkalinity as ppm $CaCO_3$: Total	Hardness as ppm $CaCO_3$: Calcium	Hardness as ppm $CaCO_3$: Total	Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
ASHEWEIG RIVER			July 14			1.70	0.40	18	2	0.8			5	1		<0.01[d] 0.39[e]	0.013		52			90			
ATIKAMEG LAKE	54°15'	88°22'	June 26		7.9[x]	0.32	0.15	6	1	1			7	1	<0.03	<0.01[d] 0.60[e]	0.031		15		16[x]	60		70[x]	20[x]
			July 18	17[x]		0.28	0.15	7	1	1			< 5	2		<0.01[d] 0.96[e]	0.041		17		16[x]	40	< 50[x]	60[x]	20[x]
			Aug. 4	16[x]		0.40	0.30	6	1	1			< 5	2		<0.01[d] 0.84[e]	0.037		16			50	< 50[x]	60[x]	25[x]
			Sept. 7	14[x]	7.3[x]	0.34	0.30	8	0	0.9			3	2		<0.01[d] 0.62[e]	0.042		16		18[x]	40	< 50[x]	70[x]	30[x]
			Oct. 11	3[x]			1.00		3	1.1			1	2		<0.01[d] 0.96[e]	0.056		15		16[x]	50	< 50[x]	70[x]	60[x]
HILL LAKE	54°34'	87°22'	Aug. 4	15[x]																	26[x]		57[x]	50[x]	15[x]
HOOK LAKE	54°37'	86°56'	Aug. 4	15[x]																	16[x]		< 50[x]	30[x]	10[x]
KARL LAKE			July 15			2.30	0.30	13	1	0.6			0	1		<0.01[d] 0.37[e]	0.017		31			60			
LOON LAKE	54°50'	85°26'	Aug. 4	15[x]																	4[x]		< 50[x]	100[x]	25[x]
NOWRS BOG	54°14'	88°23'	July 18	17[x]																			< 50[x]	85[x]	25[x]
			July 27	21[x]	7.6[x]																14[x]		< 50[x]	85[x]	30[x]
			Aug. 4	15[x]																	16[x]		< 50[x]	85[x]	25[x]
SHIBOGAMA LAKE	54°35'	88°30'	June 21	15[x]	7.7[x]	1.20	0.15	13	3	1.0			0	1	0.03	<0.01[d] 0.42[e]	0.023		41		46[x]	80		30[x]	20[x]
			July 20			1.50	0.15	16	2	1.0			< 5	< 1		<0.01[d] 0.36[e]	0.016		47			80		30[x]	10[x]
			Aug. 13		8.2[x]	2.10	0.15	14	4	1.0			< 5	< 1		<0.01[d] 0.44[e]	0.018		53			80		30[x]	10[x]
			Oct. 6			2.70	0.20	19	3	0.7			0	1		<0.01[d] 0.36[e]	0.008		57			110		30[x]	10[x]
WUNNUMMIN LAKE - bottom	53°38'	88°35'	June 21	12[x]	7.9[x]	3.40	0.10	14	2	1			3	1	<0.03	<0.01[d] 0.34[e]	0.015		41		46[x]	90	82[x]	50[x]	20[x]
			July 20	16[x]		2.60	0.15	14	2	1			< 5	< 1		<0.01[d] 0.43[e]	0.018		44			60	75[x]	30[x]	15[x]
			Aug. 13	19[x]		2.50	0.20	14		1			< 5	2		<0.01[d] 0.37[e]	0.020		41			80	73[x]	40[x]	15[x]
			Sept.13	13[x]		1.70	0.50	14	3	0.6			< 1	1		0.08[d] 0.42[e]	0.035		40			80	73[x]	30[x]	15[x]
			Oct. 6	8[x]		1.50	0.20	14	3	0.7			0	1		<0.01[d] 0.35[e]	0.013		40		42[x]	90	74[x]	30[x]	15[x]

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

\+ - In Excess

* - Settled

TABLE 48 (continued)

CHEMICAL ANALYSES OF WATER SAMPLES

WINISK RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million: Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Boron (B)	Nitrate (NO_3)	Phosphorus (P)	Alkalinity as ppm $CaCO_3$: Phenolphthalein	Alkalinity as ppm $CaCO_3$: Total	Hardness as ppm $CaCO_3$: Calcium	Hardness as ppm $CaCO_3$: Total	Total Dissolved Solids (ppm)	Specific Conductance (micromhos at 25°C)	Colour (Hazen units)	Turbidity (J.T.U. **)
WUNNUMMIN LAKE-composite	53°38'	88°35'	June 21	13x	7.8x	3.60	0.10	14	2	1			5	1	<0.03	<0.01d 0.38e	0.010		40		46x	90	82x	40x	15x
			July 20	17x		2.10	0.15	14	2	1			< 5	2		<0.01d 0.33e	0.011		41			80	75x	40x	15x
			Aug. 13	21x		1.90	0.15	14	2	1			< 5	< 1		<0.01d 0.32e	0.012		39			70	73x	40x	10x
			Sept.13	13x		16.00	0.25	14	3	0.6			0	1		<0.01d 0.36e	0.017		39			60	73x	30x	15x
			Oct. 6	8x			0.20	14	2	0.6			0	< 1		<0.01d 0.50e	0.013		39			60	72x	30x	12x
SHAGAMU BOG	55°04'	87°05'	June 26	14x	7.4x	0.26	0.15	5	1	1			0	1	<0.03	<0.01d 0.49e	0.023		12		14x	55	< 50x	85x	25x
			July 18	15x		0.22	0.20	8	2	1			< 5	3		<0.01d 0.83e	0.070		16			70	< 50	85x	30x
			Sept. 7	15x	7.4x	0.70	0.65	9	0	1.4			2	2		<0.01d 0.48e	0.012		18		20x	80	< 50x	100x	22x
			Oct. 11	3x		0.60	0.40	8	1	1			2	2		<0.01d 0.43e	0.010		19		16x	70	< 50x	100x	28x
SHAGAMU LAKE	55°04'	87°03'	June 19	14x	7.9x	0.19	0.15	8	1	1			0	1	<0.03	<0.01d 0.42e	0.019		22		24x	50		20x	10x
			July 18	15x		0.01	0.15	7	1	1			< 0.5	2		<0.01d 0.43e	0.014		23			45	< 50x	15x	25x
			Aug. 3	14x		0.20	0.15	10	3	1			< 5	2		<0.01d 0.38e	0.017		24		22x	45	57x	20x	10x
			Sept. 7	15x	7.6x	0.26	0.25	10	2	1.4			2	1		<0.01d 0.41e	0.016		24		22x	60	55x	20x	15x
			Oct. 11	3x			0.50	9	1	1.2			5	2		<0.01d 0.37e	0.024		24		22x	40	53x	30x	25x
POG LAKE	55°14'	86°36'	Aug. 4	15x		0.80	0.10	24	2	1			< 5	3		<0.01d 0.33e	0.012		71		70x	90	135x	10x	0x
H. B. LAKE	55°52'	86°49'	July 27	18x	8.6x	6.90	1.25	38	14	172			< 5	295		<0.01d 0.86e	0.064		113		168x	700	1000x	30	20x
IEO Lake	55°20'	86°36'	July 27	19x	8.2x	0.01	0.15	10	1	1			< 5	3		<0.01d 1.20e	0.012		30		28x	45	60x	10	5x

* indicates analysis performed in the Ontario Water Resources Commission Laboratory
** J.T.U. = Jackson Turbidity Unit

d - Nitrate as N
e - Total Nitrogen

x - Field Analysis
\+ - In Excess
* - Settled

TABLE 49
PHYTOPLANKTON
ALBANY RIVER BASIN
Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
BLUE GREEN	Anabaena	55	15	29	12	2	73	16	9	52	17		
	Aphanizomenon			65					28	46	49		
	Aphanocapsa			279	62	62	182			31			
	Aphanothece	310	496	713	1222	1726	204	1263	261	591	9		
	Chroococcus	43	10	61	34	17	26	87	33	69	2		
	Coelosphaerium												
	Dactylococcopsis												
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria	31	44	40	43	41	59	200	15	127	81		
	Lyngbya	11	17	95	514	178	126	333	128	233	167		
	Marssoniella												
	Merismopedia				2				42				
	Microcystis					76	43						
	Nostoc												
	Oscillatoria	103	94	145	41	178	343	75	105	88	43		
	Pelodictyon							46	55	961	34		
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units (A.S.U) per millilitre
1 A.S.U. = 400 square microns

TABLE 50
PHYTOPLANKTON
ALBANY RIVER BASIN

Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
DIATOMS	Achnanthes							1					
	Amphiprora												
	Amphora												
	Asterionella			8									
	Attheya												
	Cyclotella	15	8		22	22	8	14	1	13	9		
	Cymbella					6							
	Diatoma												
	Epithemia												
	Eunotia												
	Fragilaria	2		9			7				18		
	Melosira	22	90	24	2	200	17	48	77	233	578		
	Navicula										15		
	Nitzschia	4		4		26	1	4	3		9		
	Pinnularia												
	Rhizosolenia	1	6						7	10	13		
	Stauroneis												
	Surirella												
	Stephanodiscus	8					15			159			
	Synedra	68	30	20	7	56	36	26	22	28	91		
	Tabellaria	31	79	29	5	15	4			284	115		

Units are given in Areal Standard Units per millilitre

TABLE 51
PHYTOPLANKTON
ALBANY RIVER BASIN
Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
FLAGELLATES	Carteria												
	Ceratium	2											
	Chlamydomonas	6	23	6	7	1	1	32	2	19	3		
	Chlorogonium												
	Cryptomonas	2		5	12	3		29	6	10			
	Dinobryon		12	4	6			41			5		
	Euglena												
	Mallomonas												
	Ochromonas									3	1		
	Phacus												
	Peridinium		6	2									
	Rhodomonas												
	Synura		1										
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

TABLE 52
PHYTOPLANKTON
ALBANY RIVER BASIN
Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Actinastrum												
	Ankistrodesmus	1	5	4	1	1	2	12	2	47	5		
	Arthrodesmus												
	Botryococcus			7		16	6						
	Characium												
	Closterium			3		11	8						
	Coelastrum												
	Cosmarium												
	Crucigenia			3	3	4	2	7	1	3	2		
	Dictyosphaerium										16		
	Elakatothrix												
	Gloeocystis												
	Golenkinia												
	Kirchneriella			2									
	Lagerheimia												
	Micractinium												
	Mougeotia												
	Nephrocytium			22									

Units are given in Areal Standard Units per millilitre

TABLE 52 (cont'd)
PHYTOPLANKTON
ALBANY RIVER BASIN
Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Oedogonium						16						
	Oocystis	3	2	1		5	5	1			6		
	Ophiocytium												
	Pediastrum			1				36			1		
	Quadrigula												
	Scenedesmus	2	2	3	3	3		26	2	19	6		
	Schroederia												
	Selenastrum												
	Sphaerocystis												
	Spondylosium			1				3		6	1		
	Staurastrum		7	8	4	9	5						
	Tetraëdron	P			3		1	2		4			
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 53
PHYTOPLANKTON
ALBANY RIVER BASIN

Troutfly Lake Latitude 51°42'; Longitude 88°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
BLUE GREEN	Anabaena	2		12	17		5	10		2	39		
	Aphanizomenon												
	Aphanocapsa			85	28		5	138			62		
	Aphanothece	40		5	158	150	85	337	176	1036	216		
	Chroococcus		14	7	32	10	14	77	23	10	4		
	Coelosphaerium												
	Dactylococcopsis			2									
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria					20		6		89	8		
	Lyngbya	48	48	11	11	43	8	8	9	49	30		
	Marssoniella												
	Merismopedia						2	4		70			
	Microcystis			62				57		49	20		
	Nostoc												
	Oscillatoria	46	38	68	22	23	5	37	7	33	32		
	Pelodictyon						22	99	29	19	35		
	Pelogloea												
	Phormidium												
	Rhaboderma						6	24					
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 54
PHYTOPLANKTON
ALBANY RIVER BASIN
Troutfly Lake Latitude 51°42'; Longitude 88°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
DIATOMS	Achnanthes	1											
	Amphiprora												
	Amphora												
	Asterionella	11	5								33		
	Attheya												
	Cyclotella	18	11	15	14	6	5	13	15	21	8		
	Cymbella		1										
	Diatoma												
	Epithemia												
	Eunotia												
	Fragilaria	46		1	8						19		
	Melosira	32	14	15	6	50		71	10	91	122		
	Navicula										3		
	Nitzschia	4	2	1	3	2	1	2	21		8		
	Pinnularia												
	Rhizosolenia		1					10	30				
	Stauroneis												
	Surirella												
	Stephanodiscus	16							32	40	70		
	Synedra	16	9	19	13	9	5	75	30	55	114		
	Tabellaria	8	18	42	7						113		

Units are given in Areal Standard Units per millilitre

TABLE 55
PHYTOPLANKTON
ALBANY RIVER BASIN
Troutfly Lake Latitude 51°42'; Longitude 88°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
FLAGELLATES	Carteria												
	Ceratium				7								
	Chlamydomonas	4	3	5	13	P	P	18	19	14	5		
	Chlorogonium												
	Cryptomonas				5			5		18	17		
	Dinobryon	3	16	2	2			9			5		
	Euglena												
	Mallomonas												
	Ochromonas									11			
	Phacus												
	Peridinium												
	Rhodomonas										2		
	Synura												
	Trachelomonas	1			2								

Units are given in Areal Standard Units per millilitre

P = present

TABLE 56
PHYTOPLANKTON
ALBANY RIVER BASIN
Troutfly Lake Latitude 51°42'; Longitude 88°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Actinastrum												
	Ankistrodesmus	2	1	2	1	1	5	3	3	10	4		
	Arthrodesmus							9					
	Botryococcus		19		11	3	6			5			
	Characium				1								
	Closterium												
	Coelastrum								4				
	Cosmarium	2											
	Crucigenia	1			P		1		2	2	1		
	Dictyosphaerium												
	Elakatothrix						P			4			
	Gloeocystis												
	Golenkinia									1			
	Kirchneriella												
	Lagerheimia			2	P		P						
	Micractinium												
	Mougeotia			1									
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 56 (cont'd)
PHYTOPLANKTON
ALBANY RIVER BASIN
Troutfly Lake Latitude 51°42'; Longitude 88°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Oedogonium												
	Oocystis	5		2	7	7	14	5	7	5	18		
	Ophiocytium												
	Pediastrum		5	1	5	24	8			1	24		
	Quadrigula												
	Scenedesmus	3	1	3	5	2	2		3	2	19		
	Schroederia							11					
	Selenastrum							P					
	Sphaerocystis												
	Spondylosium			1	1	2							
	Staurastrum	2		2	2								
	Tetraëdron	3	2	2		2	1	3	1	1	2		
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 57
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Attawapiskat Lake Latitude 52°15'; Longitude 87°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
BLUE GREEN	Anabaena		10	39	19	10	15		5				
	Aphanizomenon			40	81	22		15	20	54	54		
	Aphanocapsa							4					
	Aphanothece			238			26		3				
	Chroococcus		12	5		5	24	5			1		
	Coelosphaerium												
	Dactylococcopsis												
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria		8	5	21	16	3		5				
	Lyngbya			13		12		5					
	Marssoniella								2				
	Merismopedia			4	6	10	2	4	4				
	Microcystis				50		98						
	Nostoc												
	Oscillatoria	3	3	40	61	43	20	38	16	1	41		
	Pelodictyon												
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 58
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Attawapiskat Lake Latitude 52°15'; Longitude 87°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
DIATOMS	Achnanthes					P							
	Amphiprora										9		
	Amphora												
	Asterionella	14	16		28	9	3	59	9	20	46		
	Attheya												
	Cyclotella	7	5	16	10	24	21	9	8	5	10		
	Cymbella			4									
	Diatoma												
	Epithemia												
	Eunotia												
	Fragilaria	22	17				7						
	Melosira	11	7	13	63	57	8	20	70	23	61		
	Navicula							5					
	Nitzschia	8	P	4	13	2	1	9	4	1	5		
	Pinnularia												
	Rhizosolenia	1	7					7			10		
	Stauroneis												
	Surirella		11					3					
	Stephanodiscus							1	5				
	Synedra	22	11	18	10	7	18	4	20	5	10		
	Tabellaria	5	20	14		6	20	16	23				

Units are given in Areal Standard Units per millilitre

P = present

TABLE 59
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Attawapiskat Lake Latitude 52°15'; Longitude 87°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	21	22	32	21	4	3	52		4	10		
	Chlorogonium												
	Cryptomonas	24	28	49	21	1	23	32	27	17	23		
	Dinobryon	6	10	3	2			2	5	23	3		
	Euglena												
	Mallomonas												
	Ochromonas									3			
	Phacus	3											
	Peridinium		3										
	Rhodomonas								39	5	5		
	Synura												
	Trachelomonas							1		1			

Units are given in Areal Standard Units per millilitre

TABLE 60
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Attawapiskat Lake Latitude 52°15'; Longitude 87°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Actinastrum	1	3	1	2	5	2	2	7	1	4		
	Ankistrodesmus				6								
	Arthrodesmus			19									
	Botryococcus						P						
	Characium					2							
	Closterium									P			
	Coelastrum									3	P		
	Cosmarium		1	1	3	5	8	1	1				
	Crucigenia					9			1				
	Dictyosphaerium								2				
	Elakatothrix												
	Gloeocystis									1			
	Golenkinia												
	Kirchneriella					P							
	Lagerheimia												
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 60 (cont'd)
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Attawapiskat Lake Latitude 52°15'; Longitude 87°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Oedogonium				8								
	Oocystis					1	2						
	Ophiocytium												
	Pediastrum						1						
	Quadrigula			2									
	Scenedesmus	1	1	1		7	5	2		2	P		
	Schroederia												
	Selenastrum					P	P			P			
	Sphaerocystis												
	Spondylosium			1									
	Staurastrum												
	Tetraëdron	1	P			2	1		P				
	Treubaria			P		3	1						
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 61
PHYTOPLANKTON
SEVERN RIVER BASIN
Agusk Lake Latitude 54°38'; Longitude 89°30'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70			
BLUE GREEN	Anabaena	8	35	26	31	6	47	253	13	47			
	Aphanizomenon									5			
	Aphanocapsa			138	270	237		42	78	46			
	Aphanothece	826	6189	4080	5497	13396	9864	695	2138	795			
	Chroococcus	35	62	4	232	164		230	124	132			
	Coelosphaerium												
	Dactylococcopsis												
	Gloeocapsa				22								
	Gloeotheca												
	Gomphosphaeria			34	62	11		266	61	109			
	Lyngbya	7	10		34	40	68	39	45	67			
	Marssoniella												
	Merismopedia												
	Microcystis				95				79	153			
	Nostoc			41			355						
	Oscillatoria	54	69	81	70	22	32	47	4	21			
	Pelodictyon						397	59	47	42			
	Pelogloea												
	Phormidium												
	Rhaboderma				41		35	41					
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 62
PHYTOPLANKTON
SEVERN RIVER BASIN

Agusk Lake Latitude 54°38'; Longitude 89°30'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70			
DIATOMS	Achnanthes	2			17			1	2				
	Amphiprora					126							
	Amphora												
	Asterionella												
	Attheya												
	Cyclotella	21	21	40	16	17	15	28	17	3			
	Cymbella						3						
	Diatoma												
	Epithemia												
	Eunotia												
	Fragilaria	4			35			46					
	Melosira												
	Navicula			11	80	32		26	23	6			
	Nitzschia	12	6	2	54	35	3		33	8			
	Pinnularia												
	Rhizosolenia	6		6			13		18				
	Stauroneis				36								
	Surirella												
	Stephanodiscus												
	Synedra	22	28	52	27	3	23	74	106	51			
	Tabellaria	50								2			

Units are given in Areal Standard Units per millilitre

TABLE 63
PHYTOPLANKTON
SEVERN RIVER BASIN
Agusk Lake Latitude 54°38'; Longitude 89°30'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70			
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	21	7	2	11	7	7	24	6	1			
	Chlorogonium												
	Cryptomonas	5			4	8				5			
	Dinobryon	29			18	21		7	64	28			
	Euglena												
	Mallomonas									3			
	Ochromonas					5		17	3	5			
	Phacus												
	Peridinium	3				7	7			1			
	Rhodomonas									1			
	Synura												
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

TABLE 64
PHYTOPLANKTON
SEVERN RIVER BASIN

Agusk Lake Latitude 54°38'; Longitude 89°30'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70			
GREEN	Actinastrum												
	Ankistrodesmus	3	4	8	11	3	23	30	24	11			
	Arthrodesmus												
	Botryococcus		10	7				26	41				
	Characium												
	Closterium				14								
	Coelastrum		9			15			3	10			
	Cosmarium		2			14				4			
	Crucigenia	3	5	16	19	2	13	22	10	8			
	Dictyosphaerium								5				
	Elakatothrix								2				
	Gloeocystis	39			89								
	Golenkinia	P											
	Kirchneriella									6			
	Lagerheimia			1									
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 64 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN
Agusk Lake Latitude 54°38'; Longitude 89°30'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70			
GREEN	Oedogonium		91		151					23			
	Oocystis	2	5	69	2	12	11	39	50	3			
	Ophiocytium				2		1						
	Pediastrum	10	21	2	2	50		21	48	3			
	Quadrigula												
	Scenedesmus	21	13	9	89	27	35	6	17	29			
	Schroederia												
	Selenastrum			P		5							
	Sphaerocystis												
	Spondylosium			3		8		5					
	Staurastrum				2	9			28				
	Tetraëdron		P	1	5	5	1	2		1			
	Treubaria												
	Ulothrix							55					

Units are given in Areal Standard Units per millilitre

P = present

TABLE 65
PHYTOPLANKTON
SEVERN RIVER BASIN

Big Trout Lake Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
BLUE GREEN	Anabaena				12	11	27	78		40			
	Aphanizomenon				29			4	5	6	5		
	Aphanocapsa		136			78		8	84				
	Aphanothece	58	363	61	214	286	941	554	387	163			
	Chroococcus		2		8	15	21	4	18	35			
	Coelosphaerium	28											
	Dactylococcopsis												
	Gloeocapsa		2										
	Gloeotheca												
	Gomphosphaeria	9	19		8	34	20	27	61	33	34		
	Lyngbya					16	7	17	13	69	82		
	Marssoniella												
	Merismopedia	1											
	Microcystis							15		58	107		
	Nostoc								16				
	Oscillatoria	31	38	50	81	37	56	36	7	98	14		
	Pelodictyon												
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 66
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
DIATOMS	Achnanthes												
	Amphiprora										66		
	Amphora												
	Asterionella	12	17	30	29	21		2		33	23		
	Attheya												
	Cyclotella	23	32	72	25	11	12	10	6	11	43		
	Cymbella						6						
	Diatoma						7						
	Epithemia									3			
	Eunotia												
	Fragilaria	31		30	8	68		35	10	7	104		
	Melosira	92	40	61	44	12	38	8	116	97	423		
	Navicula												
	Nitzschia	6		9		10	1	1	14	27	10		
	Pinnularia			21									
	Rhizosolenia		12			3		4		22	7		
	Stauroneis												
	Surirella												
	Stephanodiscus	37	27		13		38	20	109	144	114		
	Synedra	30	55	44	19	9	11	10	37	26	19		
	Tabellaria		24			18					16		

Units are given in Areal Standard Units per millilitre

TABLE 67
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 8/70	Sept. 28/70		
FLAGELLATES	Carteria												
	Ceratium					13		20					
	Chlamydomonas	27	36	22	6	10	15	8	12	16	9		
	Chlorogonium												
	Cryptomonas	5			5	2	3	7	12		25		
	Dinobryon	10	15	4	12	2		1	5	21	2		
	Euglena												
	Mallomonas												
	Ochromonas					1	P	2					
	Phacus												
	Peridinium			2			2	2			4		
	Rhodomonas							4			14		
	Synura												
	Trachelomonas				1				2				

Units are given in Areal Standard Units per millilitre

P = present

TABLE 68
PHYTOPLANKTON
SEVERN RIVER BASIN

Big Trout Lake Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
GREEN	Actinastrum												
	Ankistrodesmus	3	5	16	1	6	1	4	1	8	6		
	Arthrodesmus												
	Botryococcus									1			
	Characium								8		23		
	Closterium												
	Coelastrum						16						
	Cosmarium												
	Crucigenia			1		1		1			1		
	Dictyosphaerium												
	Elakatothrix												
	Gloeocystis												
	Golenkinia			1									
	Kirchneriella												
	Lagerheimia	P	1	2	1	P							
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 68 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
GREEN	Oedogonium												
	Oocystis					P	2	P					
	Ophiocytium												
	Pediastrum					1		12	62	5			
	Quadrigula												
	Scenedesmus	P	4	1	1	1	1	1	2				
	Schroederia												
	Selenastrum												
	Sphaerocystis												
	Spondylosium						1						
	Staurastrum		6		4	9	3		9		17		
	Tetraëdron				3	1	1						
	Treubaria												
	Ulothrix								3				

Units are given in Areal Standard Units per millilitre

P = present

TABLE 69
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Bog Latitude 53°51'; Longitude 89°53'

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70			
BLUE GREEN	Anabaena	107			3	16		2	11	8			
	Aphanizomenon												
	Aphanocapsa												
	Aphanothece							64					
	Chroococcus	9	P	35	11		7	10		13			
	Coelosphaerium												
	Dactylococcopsis							1					
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria				3								
	Lyngbya							1		2			
	Marssoniella												
	Merismopedia												
	Microcystis									3			
	Nostoc												
	Oscillatoria		2										
	Pelodictyon												
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 70
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Bog Latitude 53°51'; Longitude 89°53'

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70			
DIATOMS	Achnanthes					P	P	1					
	Amphiprora												
	Amphora												
	Asterionella	1	2				38		36	19			
	Attheya												
	Cyclotella	11	3	5	7	2	P	P	1	P			
	Cymbella												
	Diatoma												
	Epithemia												
	Eunotia		P										
	Fragilaria		1			2		3					
	Melosira												
	Navicula		2	1						5			
	Nitzschia	7		2	3	1	2						
	Pinnularia							31					
	Rhizosolenia							1					
	Stauroneis												
	Surirella												
	Stephanodiscus												
	Synedra	2	3	1		2	1	2	3	4			
	Tabellaria	44					2						

Units are given in Areal Standard Units per millilitre

P = present

TABLE 71
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Bog Latitude 53°51'; Longitude 89°53'

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70			
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	43	1	11	12	18	11	23	7	1			
	Chlorogonium				1								
	Cryptomonas	10		12	49	48	13	31	22	14			
	Dinobryon	1137	1980	107	3	32	535	42	441	352			
	Euglena												
	Mallomonas												
	Ochromonas			1	1		3		3	4			
	Phacus												
	Peridinium	3	3		2		2						
	Rhodomonas								10	15			
	Synura		1										
	Trachelomonas			2	7		P						

Units are given in Areal Standard Units per millilitre

P = present

TABLE 72
PHYTOPLANKTON
SEVERN RIVER BASIN

Big Trout Lake Bog Latitude 53°51'; Longitude 89°53'

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70			
GREEN	Actinastrum												
	Ankistrodesmus		1			P			P				
	Arthrodesmus												
	Botryococcus				4		5		9				
	Characium			P									
	Closterium												
	Coelastrum				8		1	1					
	Cosmarium	2				9							
	Crucigenia	6	2	2			1		2				
	Dictyosphaerium												
	Elakatothrix				1		1		1	2			
	Gloeocystis						8						
	Golenkinia												
	Kirchneriella												
	Lagerheimia												
	Micractinium												
	Mougeotia						8	40	3				
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 72 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Bog Latitude 53°51'; Longitude 89°53'

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70			
GREEN	Oedogonium												
	Oocystis	1		1			1	1	1				
	Ophiocytium					1							
	Pediastrum	12	1	1		3	1						
	Quadrigula			11									
	Scenedesmus	14	1	5	5	7	4	5	3	2			
	Schroederia						P						
	Selenastrum	P				P	P						
	Sphaerocystis												
	Spondylosium							1					
	Staurastrum												
	Tetraëdron	1				1							
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 73
PHYTOPLANKTON
SEVERN RIVER BASIN

Kaness Lake Latitude 52°31'; Longitude 92°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
BLUE GREEN	Anabaena	48	84	355	325	105	263	32	3	7	2		
	Aphanizomenon	94	103	332	356	184	368	110	41	6	17		
	Aphanocapsa												
	Aphanothece			67		180	316			5	8		
	Chroococcus	15	11	21	8	6	37	25	4	2	3		
	Coelosphaerium	12								65			
	Dactylococcopsis												
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria		41		10	55	36	60	75	55	20		
	Lyngbya			14	10				7	17			
	Marssoniella												
	Merismopedia						3						
	Microcystis			76						14			
	Nostoc			376									
	Oscillatoria		5		39		9	2	3				
	Pelodictyon												
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 74
PHYTOPLANKTON
SEVERN RIVER BASIN
Kaness Lake Latitude 52°31'; Longitude 92°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
DIATOMS	Achnanthes	P											
	Amphiprora												
	Amphora												
	Asterionella	36			25	59	20	15	13	46	10		
	Attheya												
	Cyclotella	5	P	1	3		2		1	1	P		
	Cymbella												
	Diatoma												
	Epithemia												
	Eunotia												
	Fragilaria									108			
	Melosira	4	6		10			2	2	47	9		
	Navicula									1			
	Nitzschia	4					2			4	2		
	Pinnularia												
	Rhizosolenia		22							4	4		
	Stauroneis												
	Surirella												
	Stephanodiscus	5							7				
	Synedra		1	3		40	3		4	12	1		
	Tabellaria	154	6	14	32	43	63	24	52	50			

Units are given in Areal Standard Units per millilitre

P = present

TABLE 75
PHYTOPLANKTON
SEVERN RIVER BASIN
Kaness Lake Latitude 52°31'; Longitude 92°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	9	15	8	20	2	3	6	2	4	4		
	Chlorogonium												
	Cryptomonas	4	1	10	72	6	5	28	60	19	45		
	Dinobryon	20			6		23	2					
	Euglena								1				
	Mallomonas										3		
	Ochromonas							P					
	Phacus												
	Peridinium												
	Rhodomonas								31	3	21		
	Synura										1		
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 76
PHYTOPLANKTON
SEVERN RIVER BASIN
Kaness Lake Latitude 52°31'; Longitude 92°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
GREEN	Actinastrum												
	Ankistrodesmus		1	2	2					1			
	Arthrodesmus									4			
	Botryococcus	8							6				
	Characium							P	1				
	Closterium	2	2	10	8	9				9			
	Coelastrum							2	2	9	3		
	Cosmarium									2			
	Crucigenia		P	1				P		6			
	Dictyosphaerium			5						3	P		
	Elakatothrix	1											
	Gloeocystis												
	Golenkinia												
	Kirchneriella										2		
	Lagerheimia						1						
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 76 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN
Kaness Lake Latitude 52°31'; Longitude 92°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
GREEN	Oedogonium												
	Oocystis							2	3	3	2		
	Ophiocytium												
	Pediastrum									58			
	Quadrigula												
	Scenedesmus	P	P			1				7	P		
	Schroederia												
	Selenastrum												
	Sphaerocystis	5											
	Spondylosium			1				11	1				
	Staurastrum									5			
	Tetraëdron	P				1				1			
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 77
PHYTOPLANKTON
SEVERN RIVER BASIN

North Spirit Lake Latitude 52°36'; Longitude 93°00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
BLUE GREEN	Anabaena	3		81	28	38	35	1	4	2	5		
	Aphanizomenon	15		485		3	32	7	80	87	58		
	Aphanocapsa			144	57								
	Aphanothece		20	510	247	661	162	19	24				
	Chroococcus	4	9	36	12	22	53	15	7	25	31		
	Coelosphaerium												
	Dactylococcopsis												
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria				78	170	97	19	12	59	115		
	Lyngbya				2								
	Marssoniella												
	Merismopedia												
	Microcystis				229			2	235				
	Nostoc												
	Oscillatoria	4	87	72	42	18	1			2	4		
	Pelodictyon												
	Pelogloea								44				
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 78
PHYTOPLANKTON
SEVERN RIVER BASIN
North Spirit Lake Latitude 52°36'; Longitude 93°00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
DIATOMS	Achnanthes												
	Amphiprora										3		
	Amphora												
	Asterionella	22	2	14						4			
	Attheya												
	Cyclotella	1	6	45	3	13	1	7	11	13	13		
	Cymbella												
	Diatoma		4	4									
	Epithemia												
	Eunotia												
	Fragilaria												
	Melosira	42	14		9	21	22	6	4	30	28		
	Navicula							1					
	Nitzschia	14		21	5					2	9		
	Pinnularia												
	Rhizosolenia		12							2	4		
	Stauroneis												
	Surirella												
	Stephanodiscus		9										
	Synedra	34	14	19	55	3		19	1		1		
	Tabellaria	134			5	4	27						

Units are given in Areal Standard Units per millilitre

TABLE 79
PHYTOPLANKTON
SEVERN RIVER BASIN
North Spirit Lake Latitude 52 36'; Longitude 93 00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	94	192	70	46	6	7	1	5	1	1		
	Chlorogonium												
	Cryptomonas	115	267	78	17		3	12	40	11	18		
	Dinobryon	11	2										
	Euglena					5							
	Mallomonas										3		
	Ochromonas												
	Phacus												
	Peridinium		3										
	Rhodomonas							7	30	16	8		
	Synura												
	Trachelomonas	1											

Units are given in Areal Standard Units per millilitre

TABLE 80
PHYTOPLANKTON
SEVERN RIVER BASIN
North Spirit Lake Latitude 52°36'; Longitude 93°00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
GREEN	Actinastrum												
	Ankistrodesmus	22	6		1	2		1	1	11	5		
	Arthrodesmus												
	Botryococcus						27						
	Characium							1	1				
	Closterium	2	11		5			2		7			
	Coelastrum			22					3				
	Cosmarium					2							
	Crucigenia								P	2			
	Dictyosphaerium		9	2							4		
	Elakatothrix												
	Gloeocystis												
	Golenkinia					P							
	Kirchneriella												
	Lagerheimia				3	P							
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 80 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN
North Spirit Lake Latitude 52°36'; Longitude 93°00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
GREEN	Oedogonium												
	Oocystis					10	P		2	P	1		
	Ophiocytium												
	Pediastrum												
	Quadrigula												
	Scenedesmus			2	8		7	1	P	2	3		
	Schroederia							P					
	Selenastrum												
	Sphaerocystis												
	Spondylosium												
	Staurastrum												
	Tetraëdron							P					
	Treubaria	1											
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 81
PHYTOPLANKTON
SEVERN RIVER BASIN

Sandy Lake Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70									
BLUE GREEN	Anabaena	40	9	2									
	Aphanizomenon	2593	1071	1254									
	Aphanocapsa												
	Aphanothece												
	Chroococcus		1										
	Coelosphaerium												
	Dactylococcopsis												
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria		1										
	Lyngbya	24	1	25									
	Marssoniella												
	Merismopedia												
	Microcystis												
	Nostoc												
	Oscillatoria			4									
	Pelodictyon												
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 82
PHYTOPLANKTON
SEVERN RIVER BASIN

Sandy Lake Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70									
DIATOMS	Achnanthes												
	Amphiprora												
	Amphora												
	Asterionella												
	Attheya	11	1										
	Cyclotella	1		1									
	Cymbella												
	Diatoma												
	Epithemia												
	Eunotia												
	Fragilaria	2	1										
	Melosira	28	3	99									
	Navicula			2									
	Nitzschia												
	Pinnularia												
	Rhizosolenia			5									
	Stauroneis												
	Surirella												
	Stephanodiscus												
	Synedra		P	14									
	Tabellaria												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 83
PHYTOPLANKTON
SEVERN RIVER BASIN

Sandy Lake Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70									
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	2	6										
	Chlorogonium												
	Cryptomonas		22	35									
	Dinobryon		1										
	Euglena												
	Mallomonas												
	Ochromonas												
	Phacus	8											
	Peridinium												
	Rhodomonas			10									
	Synura												
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

TABLE 84
PHYTOPLANKTON
SEVERN RIVER BASIN

Sandy Lake Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70									
GREEN	Actinastrum												
	Ankistrodesmus	10		1									
	Arthrodesmus												
	Botryococcus												
	Characium	4	P										
	Closterium	7	3	4									
	Coelastrum												
	Cosmarium												
	Crucigenia												
	Dictyosphaerium												
	Elakatothrix												
	Gloeocystis												
	Golenkinia												
	Kirchneriella			7									
	Lagerheimia												
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 84 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN

Sandy Lake Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70									
GREEN	Oedogonium												
	Oocystis												
	Ophiocytium												
	Pediastrum												
	Quadrigula												
	Scenedesmus	1											
	Schroederia												
	Selenastrum												
	Sphaerocystis												
	Spondylosium												
	Staurastrum												
	Tetraëdron		P										
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 85
PHYTOPLANKTON
SEVERN RIVER BASIN

Sandybank Lake Latitude 53°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70			
BLUE GREEN	Anabaena	43	43	23	95	13	8	194	83	23			
	Aphanizomenon												
	Aphanocapsa		235			406	694			128			
	Aphanothece	13477	23424	12747	23352	5474	3677	3392	5079	5372			
	Chroococcus	30	20	43	46	539		88	86	574			
	Coelosphaerium												
	Dactylococcopsis	1											
	Gloeocapsa	445											
	Gloeotheca												
	Gomphosphaeria	89						52	416	42			
	Lyngbya	23	29	93	188	214	125	123	178	127			
	Marssoniella												
	Merismopedia						2	20					
	Microcystis				242	120				77			
	Nostoc												
	Oscillatoria		39	149	51	44		12		59			
	Pelodictyon						391		46	48			
	Pelogloea												
	Phormidium												
	Rhaboderma					154	1	55					
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 86
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandybank Lake Latitude 53°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70			
DIATOMS	Achnanthes									4			
	Amphiprora												
	Amphora												
	Asterionella					26	9		31	48			
	Attheya												
	Cyclotella	13	23	38	11	33	30	23	32	21			
	Cymbella						7						
	Diatoma												
	Epithemia												
	Eunotia												
	Fragilaria	50				30			35				
	Melosira												
	Navicula								133				
	Nitzschia		11					14		21			
	Pinnularia	8											
	Rhizosolenia	10	2						30				
	Stauroneis												
	Surirella												
	Stephanodiscus												
	Synedra	14	38	142	174	266	91	77	27	185			
	Tabellaria	13	50					56	160				

Units are given in Areal Standard Units per millilitre

TABLE 87
PHYTOPLANKTON
SEVERN RIVE R BASIN
Sandybank Lake Latitude 53°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70			
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	12	17	8	10	6	34	16	23	45			
	Chlorogonium												
	Cryptomonas												
	Dinobryon		4	23		36		38	26				
	Euglena												
	Mallomonas	3											
	Ochromonas			22									
	Phacus												
	Peridinium				21			11					
	Rhodomonas												
	Synura												
	Trachelomonas								59	5			

Units are given in Areal Standard Units per millilitre

TABLE 88
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandybank Lake Latitude 52°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70			
GREEN	Actinastrum												
	Ankistrodesmus	5	3	18	2		9		9	20			
	Arthrodesmus												
	Botryococcus												
	Characium												
	Closterium												
	Coelastrum												
	Cosmarium												
	Crucigenia	2	6		12	127		8	11	5			
	Dictyosphaerium												
	Elakatothrix									3			
	Gloeocystis												
	Golenkinia							2					
	Kirchneriella												
	Lagerheimia				7			4					
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

TABLE 88 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandybank Lake Latitude 53°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70			
GREEN	Oedogonium			60			180	28		26			
	Oocystis			6	9			8	13	2			
	Ophiocytium												
	Pediastrum	1		8	8				17	2			
	Quadrigula												
	Scenedesmus	2	2	7	7	30	34	23	8	10			
	Schroederia												
	Selenastrum												
	Sphaerocystis												
	Spondylosium			7		7	7	14					
	Staurastrum								2				
	Tetraëdron	3	2	2	21	4				3			
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

TABLE 89
PHYTOPLANKTON
WINISK RIVER BASIN

Atikameg Lake Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70		
BLUE GREEN	Anabaena	133		7	711	632	14	136	768	28	169		
	Aphanizomenon												
	Aphanocapsa		583	481	350	141	146			215			
	Aphanothece	3839	19922	7555	10655	16949	975	3695	3963	1402	3385		
	Chroococcus	80	320	2	399	1258	3	4	1500	2	542		
	Coelosphaerium												
	Dactylococcopsis				400								
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria				435	14		116	210				
	Lyngbya		3	3	11	22	P	6		24			
	Marssoniella												
	Merismopedia					10		4					
	Microcystis			3117	3571		42		6194	62	3353		
	Nostoc					693	7						
	Oscillatoria		22	4							159		
	Pelodictyon									133	355		
	Pelogloea												
	Phormidium		27								117		
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 90
PHYTOPLANKTON
WINISK RIVER BASIN
Atikameg Lake Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70		
DIATOMS	Achnanthes				2								
	Amphiprora						28						
	Amphora												
	Asterionella			121	86	86	12	335	807	1649	1075		
	Attheya												
	Cyclotella	15		36	16	23	17	7	10		26		
	Cymbella												
	Diatoma												
	Epithemia												
	Eunotia									3			
	Fragilaria	167	111		442	77			519	67	71		
	Melosira												
	Navicula							6			18		
	Nitzschia			18		4		9		23	128		
	Pinnularia												
	Rhizosolenia							27	76				
	Stauroneis												
	Surirella				60								
	Stephanodiscus												
	Synedra	125	65	55	21	73	3		67	141	80		
	Tabellaria	187			415			367		91	352		

Units are given in Areal Standard Units per millilitre

TABLE 91
PHYTOPLANKTON
WINISK RIVER BASIN
Atikameg Lake Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70		
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	29	12	12	29	13	1	51	204	12	44		
	Chlorogonium												
	Cryptomonas		20		13	14		55		11	26		
	Dinobryon	67	30	37	64	72	2			12	98		
	Euglena												
	Mallomonas	20							76				
	Ochromonas												
	Phacus												
	Peridinium					23							
	Rhodomonas												
	Synura												
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

TABLE 92
PHYTOPLANKTON
WINISK RIVER BASIN
Atikameg Lake Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70		
GREEN	Actinastrum												
	Ankistrodesmus	9	16			16	1	4	16	7	34		
	Arthrodesmus			26			2	18		58			
	Botryococcus						1			42	189		
	Characium												
	Closterium												
	Coelastrum		54	15		10		110	54	102	153		
	Cosmarium		7					7					
	Crucigenia	3	41	39	37	20	1	32	162	92	39		
	Dictyosphaerium				13		8	89					
	Elakatothrix												
	Gloeocystis												
	Golenkinia												
	Kirchneriella					520			99		5		
	Lagerheimia			4	3		P	4					
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 92 (cont'd)
PHYTOPLANKTON
WINISK RIVER BASIN
Atikameg Lake Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70		
GREEN	Oedogonium					26		187	357		26		
	Oocystis		20	28		10	2	95	68	121	40		
	Ophiocytium												
	Pediastrum	142	211	120	810	1155	2	130	276	90	414		
	Quadrigula		23			103	10	14		42			
	Scenedesmus	476	242	262	775	910	20	465	1832	527	2070		
	Schroederia			2									
	Selenastrum										3		
	Sphaerocystis		14										
	Spondylosium			5			P						
	Staurastrum		47		6				20	18			
	Tetraëdron	7	7		7	17	2		22	4	56		
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 93
PHYTOPLANKTON
WINISK RIVER BASIN

Kasabonika Lake Latitude 53°35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70			
BLUE GREEN	Anabaena	2	1	1	28								
	Aphanizomenon									7			
	Aphanocapsa			381			57	15					
	Aphanothece	176	371	50	716	655	513	144	33	16			
	Chroococcus	5	17	3	33	4	4		2	4			
	Coelosphaerium												
	Dactylococcopsis			9									
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria	2	5	56	25	16		9	5	7			
	Lyngbya			48		4	3	2					
	Marssoniella												
	Merismopedia												
	Microcystis				158				50				
	Nostoc				39								
	Oscillatoria	7	1	36	57	67	243	282	66	2			
	Pelodictyon							3					
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 94
PHYTOPLANKTON
WINISK RIVER BASIN
Kasabonika Lake Latitude 53°35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70			
DIATOMS	Achnanthes	1			P		1		P	P			
	Amphiprora												
	Amphora												
	Asterionella	27	2	19	9		22	50	9	18			
	Attheya												
	Cyclotella	6	11	29	30	10	13	5	4	2			
	Cymbella									2			
	Diatoma	1								P			
	Epithemia												
	Eunotia							1					
	Fragilaria	35		2	12								
	Melosira	25	4	3	7	8		15	4				
	Navicula					8							
	Nitzschia	5	5	3	11			2		7			
	Pinnularia												
	Rhizosolenia		7			4		10	7	4			
	Stauroneis												
	Surirella									2			
	Stephanodiscus												
	Synedra	49	28	94	138	29	12	21	44	33			
	Tabellaria	57	12	30	25	25	29	7		8			

Units are given in Areal Standard Units per millilitre

P = present

TABLE 95
PHYTOPLANKTON
WINISK RIVER BASIN
Kasabonika Lake Latitude 53°35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70			
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	15	8	12	18	7	40	40	9	1			
	Chlorogonium												
	Cryptomonas	12	8	13	22		6	28	26	14			
	Dinobryon	10	8	16	3		15	22	35	3			
	Euglena	4											
	Mallomonas												
	Ochromonas			2					7	2			
	Phacus												
	Peridinium	8	7	4	4		4	17					
	Rhodomonas								19	2			
	Synura												
	Trachelomonas						4						

Units are given in Areal Standard Units per millilitre

P = present

TABLE 96
PHYTOPLANKTON
WINISK RIVER BASIN
Kasabonika Lake Latitude 53°35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70			
GREEN	Actinastrum												
	Ankistrodesmus	1		2	2	12		1	1	1			
	Arthrodesmus												
	Botryococcus					3							
	Characium												
	Closterium												
	Coelastrum	2		2									
	Cosmarium								2				
	Crucigenia	2	1	38	11	6	6	7	3	1			
	Dictyosphaerium												
	Elakatothrix								1				
	Gloeocystis												
	Golenkinia	P											
	Kirchneriella												
	Lagerheimia												
	Micractinium												
	Mougeotia			4			2						
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 96 (cont'd)
PHYTOPLANKTON
WINISK RIVER BASIN
Kasabonika Lake Latitude 53°35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70			
GREEN	Oedogonium			5									
	Oocystis			2	8	1	3	P	1	3			
	Ophiocytium												
	Pediastrum		1	1		2		1					
	Quadrigula							3					
	Scenedesmus	4			15	4	4	6	P	1			
	Schroederia												
	Selenastrum				P	P	P			P			
	Sphaerocystis							15					
	Spondylosium			2		4	2						
	Staurastrum												
	Tetraëdron	1		1	3	1	P	P					
	Treubaria	1		P									
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 97
PHYTOPLANKTON
WINISK RIVER BASIN

NOWRS Bog Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70										
BLUE GREEN	Anabaena	12	101										
	Aphanizomenon												
	Aphanocapsa	204											
	Aphanothece	69	264										
	Chroococcus	24	24										
	Coelosphaerium												
	Dactylococcopsis												
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria	8	39										
	Lyngbya		5										
	Marssoniella												
	Merismopedia												
	Microcystis	100	431										
	Nostoc												
	Oscillatoria	11											
	Pelodictyon												
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 98
PHYTOPLANKTON
WINISK RIVER BASIN
NOWRS Bog Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70										
DIATOMS	Achnanthes		P										
	Amphiprora												
	Amphora												
	Asterionella		13										
	Attheya												
	Cyclotella												
	Cymbella												
	Diatoma												
	Epithemia												
	Eunotia												
	Fragilaria												
	Melosira	22											
	Navicula		3										
	Nitzschia	2	2										
	Pinnularia												
	Rhizosolenia		31										
	Stauroneis												
	Surirella												
	Stephanodiscus												
	Synedra	7	6										
	Tabellaria		50										

Units are given in Areal Standard Units per millilitre

P = present

TABLE 99
PHYTOPLANKTON
WINISK RIVER BASIN
NOWRS Bog Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70										
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	6	3										
	Chlorogonium												
	Cryptomonas	12	24										
	Dinobryon	855	968										
	Euglena												
	Mallomonas												
	Ochromonas	43	14										
	Phacus												
	Peridinium												
	Rhodomonas												
	Synura												
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

TABLE 100
PHYTOPLANKTON
WINISK RIVER BASIN
NOWRS Bog Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70										
GREEN	Actinastrum		2										
	Ankistrodesmus	3	2										
	Arthrodesmus												
	Botryococcus												
	Characium												
	Closterium	17											
	Coelastrum												
	Cosmarium												
	Crucigenia	2	3										
	Dictyosphaerium												
	Elakatothrix												
	Gloeocystis												
	Golenkinia												
	Kirchneriella												
	Lagerheimia												
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

TABLE 100 (cont'd)
PHYTOPLANKTON
WINISK RIVER BASIN
NOWRS Bog Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70										
GREEN	Oedogonium	31											
	Oocystis		4										
	Ophiocytium	1											
	Pediastrum	2	2										
	Quadrigula												
	Scenedesmus	11	5										
	Schroederia												
	Selenastrum												
	Sphaerocystis												
	Spondylosium												
	Staurastrum												
	Tetraëdron												
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

TABLE 101
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Lake Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
BLUE GREEN	Anabaena		6		6		15		6	29		11	
	Aphanizomenon											58	
	Aphanocapsa				71		65		327	6173	493		
	Aphanothece	410	539	2618	2390	5615	12547	9777	1149	902	2390	5660	
	Chroococcus	12		28	274	769	720	116	61	917	121	511	
	Coelosphaerium							99					
	Dactylococcopsis												
	Gloeocapsa												
	Gloeotheca				4			93	21				
	Gomphosphaeria												
	Lyngbya	65	106	195	265	363	301	268	252	379	184	846	
	Marssoniella												
	Merismopedia				1	18			11			17	
	Microcystis				99	809							
	Nostoc												
	Oscillatoria	19				76	160	210			7	31	
	Pelodictyon									37	48	91	
	Pelogloea												
	Phormidium												
	Rhaboderma		11										
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 102
PHYTOPLANKTON
WINISK RIVER BASIN

Shagamu Lake Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
DIATOMS	Achnanthes	P				12		1	P	3	3	14	
	Amphiprora												
	Amphora											38	
	Asterionella	4									120	228	
	Attheya												
	Cyclotella	20	19	30	9	26	25	7	3	16		22	
	Cymbella						10						
	Diatoma		2										
	Epithemia												
	Eunotia												
	Fragilaria	7		23							57		
	Melosira												
	Navicula	9	2			29	20		4		17	15	
	Nitzschia	6		4	4	58	17	13	2	40	16	61	
	Pinnularia												
	Rhizosolenia		1	13	1						40		
	Stauroneis												
	Surirella												
	Stephanodiscus												
	Synedra	17	29	31	17	43	22	86	18	23	19	103	
	Tabellaria		16							40		17	

Units are given in Areal Standard Units per millilitre

P = present

TABLE 103
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Lake Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
FLAGELLATES	Carteria		2										
	Ceratium												
	Chlamydomonas	84	17	30	5	11	30	11	1	5	17	120	
	Chlorogonium												
	Cryptomonas	8	3	22	4	16		11	4	12			
	Dinobryon	34	71	43	20	49	23	22	60				
	Euglena												
	Mallomonas												
	Ochromonas				2	4					16		
	Phacus												
	Peridinium	20	11					26					
	Rhodomonas												
	Synura												
	Trachelomonas					8					3	54	

Units are given in Areal Standard Units per millilitre

TABLE 104
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Lake Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
GREEN	Actinastrum												
	Ankistrodesmus	12	2	8	4	7		25	7	4	19	54	
	Arthrodesmus		4	6							27		
	Botryococcus												
	Characium												
	Closterium	4											
	Coelastrum				2				3	43	5	77	
	Cosmarium	2		9		4							
	Crucigenia	1	4	6	10		19	4	4		15	19	
	Dictyosphaerium					46							
	Elakatothrix						625						
	Gloeocystis												
	Golenkinia					4							
	Kirchneriella												
	Lagerheimia		1		2								
	Micractinium							5					
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

TABLE
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Lake Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
GREEN	Oedogonium										168	179	
	Oocystis		7	18	5			15	10	41			
	Ophiocytium												
	Pediastrum	76						2	12		15	59	
	Quadrigula		7	13	43								
	Scenedesmus	24	30	9	11	9	49	4	16	28	27	56	
	Schroederia												
	Selenastrum			1	P				1				
	Sphaerocystis												
	Spondylosium				1			8		6		34	
	Staurastrum										8		
	Tetraëdron	3	6					2		4	3	19	
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 105
PHYTOPLANKTON
WINISK RIVER BASIN

Shagamu Bog Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70					
BLUE GREEN	Anabaena					7		2					
	Aphanizomenon												
	Aphanocapsa					82	25						
	Aphanothece	358	3659	2686	1899	249		52					
	Chroococcus	P		21			10	8					
	Coelosphaerium												
	Dactylococcopsis	4											
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria					4		12					
	Lyngbya							3					
	Marssoniella												
	Merismopedia		4				4						
	Microcystis		469	746	335								
	Nostoc												
	Oscillatoria			13		10		14					
	Pelodictyon												
	Pelogloea												
	Phormidium												
	Rhaboderma					1							
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 106
PHYTOPLANKTON
WINISK RIVER BASIN

Shagamu Bog Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70					
DIATOMS	Achnanthes	1											
	Amphiprora												
	Amphora												
	Asterionella												
	Attheya												
	Cyclotella	1	2		3	20	5	2					
	Cymbella				3								
	Diatoma												
	Epithemia												
	Eunotia		3		2								
	Fragilaria						7						
	Melosira												
	Navicula						3						
	Nitzschia		5					10					
	Pinnularia												
	Rhizosolenia	2											
	Stauroneis												
	Surirella												
	Stephanodiscus												
	Synedra		4	3	7	3		4					
	Tabellaria	13		50		4							

Units are given in Areal Standard Units per millilitre

TABLE 107
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Bog Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70					
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	21	55	41	10	205	24	5					
	Chlorogonium												
	Cryptomonas	44	6	42	9	68	140	123					
	Dinobryon	62		11	67	101	61	25					
	Euglena												
	Mallomonas												
	Ochromonas			4			22	4					
	Phacus												
	Peridinium	1			7	13							
	Rhodomonas							1					
	Synura							1					
	Trachelomonas			6			2						

Units are given in Areal Standard Units per millilitre

TABLE 108
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Bog Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70					
GREEN	Actinastrum												
	Ankistrodesmus	31	21	9	9	9		9					
	Arthrodesmus	2					8						
	Botryococcus	6				13	8						
	Characium				3								
	Closterium												
	Coelastrum	7	19										
	Cosmarium	3				9							
	Crucigenia	10	41	93	16	7	2	3					
	Dictyosphaerium												
	Elakatothrix												
	Gloeocystis												
	Golenkinia												
	Kirchneriella				3								
	Lagerheimia												
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

TABLE 108(cont'd)
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Bog Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70					
GREEN	Oedogonium												
	Oocystis	2	14	12	4	1							
	Ophiocytium												
	Pediastrum												
	Quadrigula			16	3								
	Scenedesmus	16	30	10	11	5		5					
	Schroederia					1							
	Selenastrum			2	2	1	1						
	Sphaerocystis												
	Spondylosium			2	9	2							
	Staurastrum	1		27				3					
	Tetraëdron				3	2							
	Treubaria						1						
	Ulothrix												

Units are given in Areal Standard Units per millilitre

TABLE 109
PHYTOPLANKTON
WINISK RIVER BASIN

Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
BLUE GREEN	Anabaena		1	2	12	34	47	77	29	11	13		
	Aphanizomenon	17					20	138	127	176	72		
	Aphanocapsa		5					38	32				
	Aphanothece	86		379		105	108	121	118	89			
	Chroococcus			25	10	4	1	1	5		1		
	Coelosphaerium												
	Dactylococcopsis												
	Gloeocapsa												
	Gloeotheca												
	Gomphosphaeria			10	11	19	63	16	77	109	24		
	Lyngbya					9	16			10	1		
	Marssoniella												
	Merismopedia			4									
	Microcystis			15									
	Nostoc												
	Oscillatoria		1	8	46	2	26		5	70	25		
	Pelodictyon												
	Pelogloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 110
PHYTOPLANKTON
WINISK RIVER BASIN
Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
DIATOMS	Achnanthes	23				P							
	Amphiprora												
	Amphora												
	Asterionella		61	77	35	79	58	80	195	164	95		
	Attheya												
	Cyclotella	7	13	28	19	2	8	1	13	12	12		
	Cymbella												
	Diatoma	4	3										
	Epithemia												
	Eunotia												
	Fragilaria		19	38		90	92	230			63		
	Melosira	69	177	171	103	63	32	355	163	82	228		
	Navicula	P			2	7			14				
	Nitzschia	13	1	5	2	16			3	9	7		
	Pinnularia												
	Rhizosolenia	15	21	53				9	52	231	96		
	Stauroneis												
	Surirella												
	Stephanodiscus	6		22				22	157	73	6		
	Synedra	110	43	25	53	26	3			4	14		
	Tabellaria	5	71	120	163	217	161	670	36		59		

Units are given in Areal Standard Units per millilitre

P = present

TABLE 111
PHYTOPLANKTON
WINISK RIVER BASIN
Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	14	16	26	18	1	2	28	31	10	8		
	Chlorogonium												
	Cryptomonas	20	32	45	26	2		64	14	14	14		
	Dinobryon	26	8	8	4			5		2	3		
	Euglena												
	Mallomonas												
	Ochromonas												
	Phacus												
	Peridinium												
	Rhodomonas									25	7		
	Synura												
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

TABLE 112
PHYTOPLANKTON
WINISK RIVER BASIN

Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Actinastrum												
	Ankistrodesmus	2	1	10	5	5				8	10		
	Arthrodesmus						8						
	Botryococcus						5						
	Characium												
	Closterium									4	3		
	Coelastrum									2			
	Cosmarium												
	Crucigenia	1		3			P		1	P	4		
	Dictyosphaerium						1		24				
	Elakatothrix												
	Gloeocystis												
	Golenkinia												
	Kirchneriella												
	Lagerheimia						P						
	Micractinium												
	Mougeotia												
	Nephrocytium						5						

Units are given in Areal Standard Units per millilitre

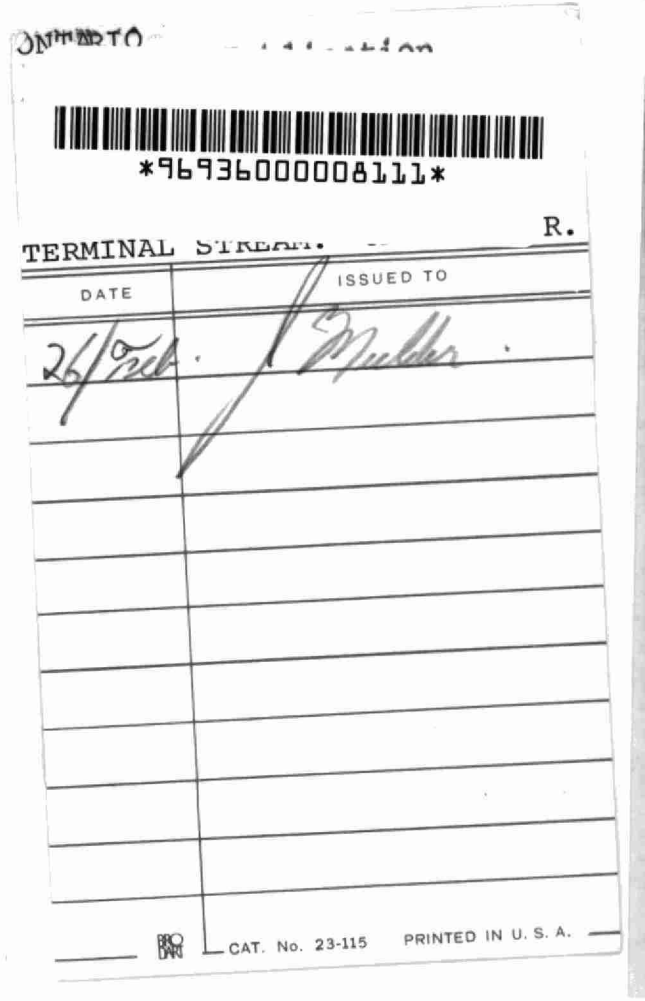
P = present

TABLE 112 (cont'd)
PHYTOPLANKTON
WINISK RIVER BASIN
Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Oedogonium												
	Oocystis		1			4	5						
	Ophiocytium					P							
	Pediastrum					10							
	Quadrigula												
	Scenedesmus	1	1	2	3	5					4		
	Schroederia												
	Selenastrum												
	Sphaerocystis												
	Spondylosium			3									
	Staurastrum												
	Tetraëdron	1	P										
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present


96936000008111
TERMINAL
R.
DATE
ISSUED TO
26/Feb.
Mulder.
CAT. No. 23-115
PRINTED IN U. S. A.

ONTARIO WATER RESOURCES COMMISSION

DIVISION OF WATER RESOURCES

WATER RESOURCES SURVEY

NORTHERN ONTARIO

MAP 2006-4

HYDROMETRIC STATIONS AND INVESTIGATED SITES

1970

Scale 1:2,000,000

1 inch equals approximately 32 miles

20 0 20 40 60 80 100 Miles

40 0 40 80 120 Kilometres

Base map derived from Map MCR 39, Dept. of Mines and Technical Surveys, Ottawa, 1962.

LEGEND

- Gauging site Investigated — not gauged; geologic investigation made
- Streamflow gauging station, manual discharge measurement — 018
- Streamflow gauging station, open water recording gauge — 006
- Streamflow gauging station, continuous recording gauge (OWRC maintained) — 007
- Streamflow gauging station, continuous recording gauge (Federal govt. maintained) — 4CE-1
- Lake gauge — 4LA-1
- Meteorological station — NAKINA
- Precipitation station only, recording gauge — 005
- Seasonal rainfall station, OWRC recording gauge — 001
- Snow course — 001
- Ground water observation station — 009
- Ground water observation station, recording gauge — 003R
- Ground water observation station, two piezometers — 008 (2)
- Abandoned station

To accompany Water Resources Bulletin 1-3